Suntracer KNX pro

Weather Station

Item number 70900

elsner

Manual

This manual is amended periodically and will be brought into line with new software releases. The change status (software version and date) can be found in the contents footer. If you have a device with a later software version, please check **www.elsner-elektronik.de** in the menu area "Service" to find out whether a more up-to-date version of the manual is available.

Clarification of signs used in this manual

Safety advice.

Safety advice for working on electrical connections, components, etc.

DANGER! ... indicates an immediately hazardous situation which will lead to death or severe injuries if it is not avoided.

WARNING! ... indicates a potentially hazardous situation which may lead to death or severe injuries if it is not avoided.

CAUTION! ... indicates a potentially hazardous situation which may lead to trivial or minor injuries if it is not avoided.

ATTENTION! ... indicates a situation which may lead to damage to property if it is not avoided.

ETS In the ETS tables, the parameter default settings are marked by underlining.

1. Safety and operating instructions

Installation, testing, operational start-up and troubleshooting should only be performed by a qualified electrician.

CAUTION!
Live voltage!

- Inspect the device for damage before installation. Only put undamaged devices into operation.
- Comply with the locally applicable directives, regulations and provisions for electrical installation.
- Immediately take the device or system out of service and secure it against unintentional switch-on if risk-free operation is no longer guaranteed.

Use the device exclusively for building automation and observe the operating instructions. Improper use, modifications to the device or failure to observe the operating instructions will invalidate any warranty or guarantee claims.
Operate the device only as a fixed-site installation, i.e. only in assembled condition and after conclusion of all installation and operational start-up tasks, and only in the surroundings designated for it.
Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

For information on installation, maintenance, disposal, scope of delivery and technical data, please refer to the installation instructions.

2. Description

The **Weather Station Suntracer KNX pro** for the KNX building bus system measures temperature, wind speed, wind direction, brightness air humidity and air pressure. It recognises precipitation and receives the GPS signal for time and location. In addition, using location coordinates and the time, it calculates the exact position of the sun (azimuth and elevation).

All values can be used for the control of limit dependent switching outputs. States can be linked via AND logic gates and OR logic gates. Multi-function modules change input data as required by means of calculations, querying a condition, or converting the data point type.
The integrated shade control system allows intelligent sun protection control of up to 12 façades.

Functions:

- **Brightness measurement** (current light strength). Measurement with 5 separate sensors, output of the current highest value (one maximum value). Separate limit values for night
- **GPS receiver**, outputting the current time and location coordinates. The **Weather Station Suntracer KNX pro** also computes the position of the sun (azimuth and elevation)
- **Shade control** for up to 12 façades with slat tracking and shadow edge tracking
- **Wind measurement**: Measurement of wind strength and wind direction (0°-360°) by ultrasound
- **Precipitation detection**: The sensor surface is heated, so that only drops and flakes are recognised as precipitation, but not mist or dew. When the rain or snow stops, the sensor is soon dry again and the precipitation warning ends
- **Temperature measurement. Calculation of the felt temperature (considering wind strength and air humidity)**
- Frost protection for shading systems
- **Air humidity measurement** (relative, absolute)
- Bus message, whether the values of temperature and humidity are within the **comfort field** (DIN 1946). Calculation of the **dew point**
- **Air pressure measurement**
- **Weekly and calendar time switch**: All time switching outputs can be used as communication objects.
  The **weekly time switch** has 24 periods. Each period can be configured either as an output or as an input. If the period is an output, then the switching time is set per parameter or per communication object.
  The **calendar time switch** has 4 periods. Two on/off switching operations, which are executed daily, can be set for each period
- **Switching outputs** for all measured and computed values. Threshold values can be adjusted per parameter or via communication objects
- **8 AND and 8 OR logic gates**, each with 4 inputs. All switching events as well as 16 logic inputs (in the form of communications objects) can be used as inputs for the logic gates. The output of each gate can be configured optionally as 1-bit or 2 x 8-bit
- **8 multi-function modules** (computers) for changing the input data by calculations, by querying a condition or by converting the data point type
- **Summer compensation** for cooling systems. A characteristic curve matches the target temperature in the room to the external temperature and sets the minimum and maximum target temperature values.

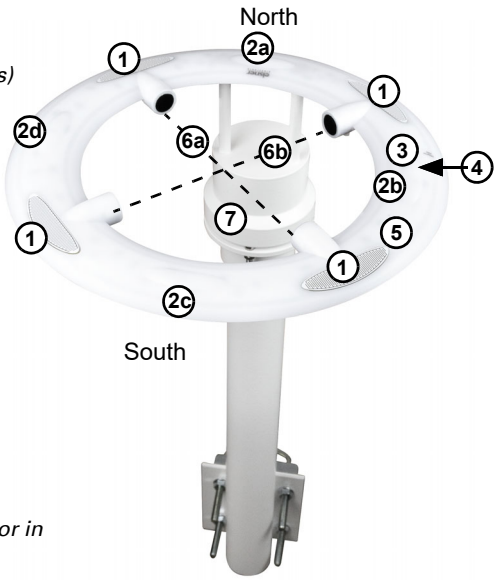
2.1. Notes on wind measurement

Due to very heavy rain, hail or snowfall, the ultrasonic signal can be attenuated to such an extent that no correct measured values can be output. In this case, a wind sensor error is sent and the wind speed is set to the maximum value of 35 m/s for safety reasons.

2.2. Position of the sensors

Fig. 1

1 *Precipitation sensors (4 surfaces with conductor tracks)*
2 *Brightness sensors under plastic domes, directed towards*
a - North
b - East and up (sky)
c - South
d - West
3 *Pressure sensor*
4 *Magnet PRG button (magnetic switch) for addressing the device*
5 *GPS module*
6 *Wind sensor with ultrasonic measuring sections*
a - North-east/South-west
b - South-east/North-west
7 *Temperature and humidity sensor in the base*



3. Start-up

Configuration is made using the KNX software ETS. The **product file** can be downloaded from the Elsner Elektronik website on **www.elsner-elektronik.de**.

After the bus voltage has been applied, the device will enter an initialisation phase lasting a few seconds. During this phase no information can be received or sent via the bus.

3.1. Address the device on the bus

The equipment is delivered with the bus address 15.15.255. A different address can be programmed in the ETS by overwriting the address 15.15.255 or by holding a magnet on the magnetic PRG button.

4. Transfer protocol

Units:

Temperatures in degrees Celsius
Brightness in Lux
Wind in metres per second
Air pressure in Pascal
Azimuth and elevation in degrees

4.1. List of all communications objects

Abbreviation flags:

C Communication
R Read
W Write
T Transmit
U Update

No.	Text	Function	Flags	DPT type	Size
1	Software version	Output	CR-T	[217.1] DPT_Version	2 Bytes
Read the Software Version using this Object.					
104	GPS malfunction (0: OK | 1: NOK)	Output	CR-T	[1.2] DPT_Bool	1 Bit
If enabled, gps error is recognised = 1 when no value received after a 20min-2hr time. (0 = No Erorr) Default					
105	Date / time	Output	CRWT	[19.1] DPT_-DateTime	8 Bytes
Both Date and Time are read or written using this object.					
106	Date	Output	CRWT	[11.1] DPT_Date	3 Bytes
The Date can be read or written here. When setting manually, a maximum interval of 10 seconds between setting the Date and Time is allowed.					
107	Time	Output	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
The Time can be read or written here. When setting manually, a maximum interval of 10 seconds between setting the Date and Time is allowed.					
108	Date and time query	Input	C-W-	[1.17] DPT_Trig-ger	1 Bit
Writing a 1 to the communication object triggers the device to send its current date and time information to the KNX bus. This is often used to synchronize or retrieve the current time from the device					
110	Location: latitude [°]	Output	CR-T	[14.7] DPT_Val-ue_AngleDeg	4 Bytes

No.	Text	Function	Flags	DPT type	Size
The latitude can be read in degrees [°] (Provided from the GPS)					
111	Location: longitude [°]	Output	CR-T	[14.7] DPT_Value_AngleDeg	4 Bytes
The longitude can be read in degrees [°] (Provided from the GPS)					
114	Rain: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
This Object sends 1 if Rain is detected (Rain=1; No Rain=0). By default 0 min delay for rain detection & 5 min delay for dry condition. These delay values can be changed by parameters and are valid until they are changed using the communication objects.					
115	Rain: Switching output with fixed delays	Output	CR-T	[1.1] DPT_Switch	1 Bit
This Object sends 1 if Rain is detected (Rain=1; No Rain=0). Fixed 0 min delay for rain detection and 5 min delay for dry condition.					
116	Rain: Switch delay to rain	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
The delay can be set (in sec) for Rain recognition for one time.					
117	Rain: Switch delay to no rain	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
The delay can (in sec) for No Rain recognition for one time					
121	Temperature sensor: Malfunction	Output	CR-T	[1.1] DPT_Switch	1 Bit
If enabled, it indicates if the temperature sensor is experiencing an error (1 = malfunction, 0 = no malfunction)					
122	Temperature sensor: External measured value	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
when enabled, it measure the value of an external KNX Temp Sensor. If using an External Sensor the values should be sent to this object.					
123	Temperature sensor: Measured value	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Meaured Value of the internal Sensor					
124	Temperature sensor: Switching output, total	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
External measured value proportion of of the total Value (100% = Internal value is disgarded). If you want to mix the temperature use another percentage setting.					
125	Temperature sensor: Min./max. measurement query	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Request the maximum and minimum wind value recorded. Writing a 1 to the communication object triggers the temperature sensor to report its minimum and maximum measured values to the KNX bus					

No.	Text	Function	Flags	DPT type	Size
126	Temperature sensor: Minimum measurement	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Minimum Measured Value after Reset the bus send it back after requesting a query					
127	Temperature sensor: Maximum measurement	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Maximum Measured Value after Reset the bus send it back after requesting a query					
128	Temperature sensor: Min./max. reading reset	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Min./Max values reset after requesting them using the Measurement query. (Obj. No. 125)					
129	Temp. sensed: Measured value	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Felt temperature is according to wind chill and heat index, which account for wind and humidity to indicate how temperature feels to people.					
131	Temp. threshold value 1: Absolute value	Input / Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Reference point of setting and/or reading the threshold value 1.					
132	Temp. threshold value 1: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Temp threshold value 1					
133	Temp. threshold value 1: Switching delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 135 changes from 0 to 1, (after the measured value is over the threshold)					
134	Temp. threshold value 1: Switching delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 135 changes from 1 to 0, (after the measured value is under the threshold)					
135	Temp. threshold value 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) temperature threshold 1 (On = 1 ; Off = 0)					
136	Temp. threshold value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
138	Temp. threshold value 2: Absolute value	Input / Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Reference point of setting and/or reading the threshold value 2.					

No.	Text	Function	Flags	DPT type	Size
139	Temp. threshold value 2: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Temp threshold value 2					
140	Temp. threshold value 2: Switching delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 142 changes from 0 to 1, (after the measured value is over the threshold)					
141	Temp. threshold value 2: Switching delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 142 changes from 1 to 0, (after the measured value is under the threshold)					
142	Temp. threshold value 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) temperature threshold 1 (On = 1 ; Off = 0)					
143	Temp. threshold value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
145	Temp. threshold value 3: Absolute value	Input / Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Reference point of setting and/or reading the threshold value 3.					
146	Temp. threshold value 3: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Temp threshold value 3					
147	Temp. threshold value 3: Switching delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 149 changes from 0 to 1, (after the measured value is over the threshold)					
148	Temp. threshold value 3: Switching delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 149 changes from 1 to 0 (after the measured value is under the threshold)					
149	Temp. threshold value 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) temperature threshold 1 (On = 1 ; Off = 0)					
150	Temp. threshold value 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					

No.	Text	Function	Flags	DPT type	Size
152	Temp. threshold value 4: Absolute value	Input / Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Reference point of setting and/or reading the threshold value 4.					
153	Temp. threshold value 4: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Temp the threshold value 4					
154	Temp. threshold value 4: Switching delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 156 changes from 0 to 1, (after the measured value is over the threshold)					
155	Temp. threshold value 4: Switching delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 156 changes from 1 to 0, (after the measured value is under the threshold)					
156	Temp. threshold value 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) temperature threshold 1 (On = 1 ; Off = 0)					
157	Temp. threshold value 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
161	Frost alarm	Output	CR-T	[1.1] DPT_Switch	1 Bit
Independet of the façade Frost alarm. Is set HIGH according to External Temperature, Time during or after precipitation. Is set LOW according to External Temperatue, if a duration time is exceeded. Value can be Inverted.					
175	Bright. sensor measured value	Output	CR-T	[9.4] DPT_Value_Lux	2 Bytes
Send the highest currently measured value of the five internal Bright. sensors on the bus.					
181	Bright. threshold value 1: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 1.					
182	Bright. threshold value 1: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 1					
183	Bright. threshold value 1: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 185 changes from 0 to 1, (after the measured value is over the threshold)					

No.	Text	Function	Flags	DPT type	Size
184	Bright. threshold value 1: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 185 changes from 1 to 0, (after the measured value is under the threshold)					
185	Bright. threshold value 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
186	Bright. threshold value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
188	Bright. threshold value 2: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 2.					
189	Bright. threshold value 2: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 2					
190	Bright. threshold value 2: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 192 changes from 0 to 1, (after the measured value is over the threshold)					
191	Bright. threshold value 2: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 192 changes from 1 to 0, (after the measured value is under the threshold)					
192	Bright. threshold value 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
193	Bright. threshold value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
195	Bright. threshold value 3: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 3.					
196	Bright. threshold value 3: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 3					

No.	Text	Function	Flags	DPT type	Size
197	Bright. threshold value 3: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 199 changes from 0 to 1, (after the measured value is over the threshold)					
198	Bright. threshold value 3: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 199 changes from 1 to 0, (after the measured value is under the threshold)					
199	Bright. threshold value 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
200	Bright. threshold value 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
202	Bright. threshold value 4: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 4.					
203	Bright. threshold value 4: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 4					
204	Bright. threshold value 4: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 206 changes from 0 to 1, (after the measured value is over the threshold)					
205	Bright. threshold value 4: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 206 changes from 1 to 0, (after the measured value is under the threshold)					
206	Bright. threshold value 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
207	Bright. threshold value 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
209	Bright. threshold value 5: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 5.					

No.	Text	Function	Flags	DPT type	Size
210	Bright. threshold value 5: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 5					
211	Bright. threshold value 5: Delay from 0 to 1	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 213 changes from 0 to 1, (after the measured value is over the threshold)					
212	Bright. threshold value 5: Delay from 1 to 0	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 213 changes from 1 to 0, (after the measured value is under the threshold)					
213	Bright. threshold value 5: Switch-ing output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
214	Bright. threshold value 5: Switch-ing output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
216	Bright. threshold value 6: Abso-lute value	Input / Output	CRWT	[9.4] DPT_Val-ue_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 6.					
217	Bright. threshold value 6: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 6					
218	Bright. threshold value 6: Delay from 0 to 1	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 220 changes from 0 to 1, (after the measured value is over the threshold)					
219	Bright. threshold value 6: Delay from 1 to 0	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 220 changes from 1 to 0, (after the measured value is under the threshold)					
220	Bright. threshold value 6: Switch-ing output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
221	Bright. threshold value 6: Switch-ing output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					

No.	Text	Function	Flags	DPT type	Size
223	Bright. threshold value 7: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 7.					
224	Bright. threshold value 7: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 7					
225	Bright. threshold value 7: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 227 changes from 0 to 1, (after the measured value is over the threshold)					
226	Bright. threshold value 7: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 227 changes from 1 to 0, (after the measured value is under the threshold)					
227	Bright. threshold value 7: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
228	Bright. threshold value 7: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
230	Bright. threshold value 8: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the bright. threshold value 8.					
231	Bright. threshold value 8: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the bright. threshold value 8					
232	Bright. threshold value 8: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 234 changes from 0 to 1, (after the measured value is over the threshold)					
233	Bright. threshold value 8: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 234 changes from 1 to 0, (after the measured value is under the threshold)					
234	Bright. threshold value 8: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					

No.	Text	Function	Flags	DPT type	Size
235	Bright. threshold value 8: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
293	Twilight threshold value 1: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading Twilight threshold value 1.					
294	Twilight threshold 1: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Twilight threshold value 1					
295	Twilight threshold 1: delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 297 changes from 0 to 1, (after the measured value is over the threshold)					
296	Twilight threshold 1: delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 297 changes from 1 to 0, (after the measured value is under the threshold)					
297	Twilight threshold value 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
298	Twilight threshold value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
300	Twilight threshold value 2: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading Twilight threshold value 2.					
301	Bright. twilight threshold value 2: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Twilight threshold value 2					
302	Twilight threshold 2: delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 304 changes from 0 to 1, (after the measured value is over the threshold)					
303	Twilight threshold 2: delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 304 changes from 1 to 0, (after the measured value is under the threshold)					

No.	Text	Function	Flags	DPT type	Size
304	Twilight threshold value 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
305	Twilight threshold value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
307	Twilight threshold 3: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading Twilight threshold value 3.					
308	Twilight threshold 3: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Twilight threshold value 3					
309	Twilight threshold 3: delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 311 changes from 0 to 1, (after the measured value is over the threshold)					
310	Twilight threshold 3: delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 311 changes from 1 to 0, (after the measured value is under the threshold)					
311	Twilight threshold 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
312	Twilight threshold 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
314	Twilight threshold 4: Absolute value	Input / Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading Twilight threshold value 4.					
315	Twilight threshold 4: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Twilight threshold value 4					
316	Twilight threshold 4: delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 318 changes from 0 to 1, (after the measured value is over the threshold)					
317	Twilight threshold 4: delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Indicating the time period in seconds that should be exceeded before Obj.No. 318 changes from 1 to 0, (after the measured value is under the threshold)					
318	Twilight threshold 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) threshold 1(On = 1 ; Off = 0)					
319	Twilight threshold 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
331	Night: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to detect Night when illumination is less than or equal a set value in Lux					
332	Night: Switching delay on night	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Delay time in sec for output Obj.No. 332 when brightness value is Less than or equal Obj.No. 331					
333	Night: Switching delay on day	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Delay time in sec for output Obj.No. 332 when brightness value is higher than Obj.No. 331					
341	Sun position: Azimuth	Output	CR-T	[14.7] DPT_Value_AngleDeg	4 Bytes
Received Value of Sun Azimuth Angle in Degrees (4 bytes floating point)					
342	Sun position: Elevation	Output	CR-T	[14.7] DPT_Value_AngleDeg	4 Bytes
Received Value of Sun Elevation Angle in Degrees (4 bytes floating point)					
343	Sun position: Azimuth	Output	CR-T	[9] 9.xxx	2 Bytes
Received Value of Sun Azimuth Angle in Degrees (2 bytes floating point)					
344	Sun position: Elevation	Output	CR-T	[9] 9.xxx	2 Bytes
Received Value of Sun Elevation Angle in Degrees (2 bytes floating point)					
351	Wind sensor: Malfunction	Setting	CR-T	[1.1] DPT_Switch	1 Bit
If enabled, it indicates if the wind sensor is experiencing an error (1 = malfunction, 0 = no malfunction)					
352	Wind sensor: Measurement [m/s]	Output	CR-T	[9.5] DPT_Value_Wsp	2 Bytes
Measured value of wind spees in m/s					

No.	Text	Function	Flags	DPT type	Size
353	Wind sensor: Measurement [Beaufort]	Output	CR-T	[20.14] DPT_Beaufort_Wind_Force_Scale	1 Byte
Wind speed data in (m/s) in which is converted into the Beaufort scale rating (From 0 --> 12)					
354	Wind sensor: Measurement, max. query	Input	C-W-	[1] 1.xxx, [1.17] DPT_Trigger	1 Bit
Request the maximum wind value recorded. Writing a 1 to the communication object triggers the wind sensor to report ist maximum measured value to the KNX bus					
355	Wind sensor: Maximum measurement [m/s]	Output	CR-T	[9.5] DPT_Value_Wsp	2 Bytes
Max wind speed measured in m/s					
356	Wind sensor: Maximum measurement [Beaufort]	Output	CR-T	[20.14] DPT_Beaufort_Wind_Force_Scale	1 Byte
Max wind speed measured in Beaufort					
357	Wind sensor: Measured value max. reset	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Reset Max wind value recorded					
361	Wind threshold value 1: Absolute value	Input / Output	CRWT	[9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh	2 Bytes
Reference point of setting and/or reading the wind threshold value 1.					
362	Wind threshold value 1: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the wind threshold value 1					
363	Wind threshold value 1: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 365 changes from 0 to 1, (after the measured value is over the threshold)					
364	Wind threshold value 1: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 365 changes from 1 to 0, (after the measured value is under the threshold)					
365	Wind threshold value 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) wind threshold 1(On = 1 ; Off = 0)					

No.	Text	Function	Flags	DPT type	Size
366	Wind threshold value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
367	Wind threshold value 2: Absolute value	Input / Output	CRWT	[9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh	2 Bytes
Reference point of setting and/or reading the wind threshold value 2.					
368	Wind threshold value 2: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the wind threshold value 2					
369	Wind threshold value 2: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 371 changes from 0 to 1, (after the measured value is over the threshold)					
370	Wind threshold value 2: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 371 changes from 1 to 0, (after the measured value is under the threshold)					
371	Wind threshold value 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) wind threshold 1(On = 1 ; Off = 0)					
372	Wind threshold value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
373	Wind threshold value 3: Absolute value	Input / Output	CRWT	[9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh	2 Bytes
Reference point of setting and/or reading the wind threshold value 3.					
374	Wind threshold value 3: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the wind threshold value 3					
375	Wind threshold value 3: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 377 changes from 0 to 1, (after the measured value is over the threshold)					
376	Wind threshold value 3: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Indicating the time period in seconds that should be exceeded before Obj.No. 377 changes from 1 to 0, (after the measured value is under the threshold)					
377	Wind threshold value 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) wind threshold 1(On = 1 ; Off = 0)					
378	Wind threshold value 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
379	Wind threshold value 4: Absolute value	Input / Output	CRWT	[9.5] DPT_Value_Wsp, [9.28] DPT_Value_Wsp_kmh	2 Bytes
Reference point of setting and/or reading the wind threshold value 4.					
380	Wind threshold value 4: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the wind threshold value 4					
381	Wind threshold value 4: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 383 changes from 0 to 1, (after the measured value is over the threshold)					
382	Wind threshold value 4: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 383 changes from 1 to 0, (after the measured value is under the threshold)					
383	Wind threshold value 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) wind threshold 1(On = 1 ; Off = 0)					
384	Wind threshold value 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
391	Humidity sensor: Malfunction	Output	CR-T	[1.1] DPT_Switch	1 Bit
If enabled, it indicates if the humidity sensor is experiencing an error (1 = malfunction, 0 = no malfunction)					
394	Humidity sensor: External measured value	Input	-WCT	[9.7] DPT_Value_Humidity	2 Bytes
When enabled, it reads the value of an external KNX Humidity Sensor. If using an External Sensor the values should be sent to this object.					

No.	Text	Function	Flags	DPT type	Size
395	Humidity sensor: Measured value	Output	CR-T	[9.7] DPT_Value_Humidity	2 Bytes
Meaured Value of the internal humidity sensor					
396	Humidity sensor: Switching output, total	Output	CR-T	[9.7] DPT_Value_Humidity	2 Bytes
External measured value proportion of the total Value (100% = Internal value is disgarded). If you want to mix the humidity use another percentage setting.					
397	Humidity sensor: Min./max. measurement query	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Request the maximum and minimum value recorded. Writing a 1 to the communication object triggers the humidity sensor to report ist maximum and minimum measured values to the KNX bus					
398	Humidity sensor: Minimum measurement	Output	CR-T	[9.7] DPT_Value_Humidity	2 Bytes
Minimum Measured Value after Reset the bus send it back after requesting a query					
399	Humidity sensor: Maximum measurement	Output	CR-T	[9.7] DPT_Value_Humidity	2 Bytes
Maximum Measured Value after Reset the bus send it back after requesting a query					
400	Humidity sensor: Min./max. reading reset	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Min./Max values reset after requesting them using the Measurement query. (Obj.No. 397)					
411	Humidity threshold value 1: Absolute value	Input / Output	CRWT	[9.7] DPT_Value_Humidity	2 Bytes
Reference point of setting and/or reading the Humidity threshold value 1					
412	Humidity threshold value 1: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Humidity threshold value 1					
413	Humidity threshold value 1: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 415 changes from 0 to 1, (after the measured value is over the threshold)					
414	Humidity threshold value 1: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 415 changes from 1 to 0, (after the measured value is under the threshold)					
415	Humidity threshold value 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) humidity threshold 1(On = 1 ; Off = 0)					

No.	Text	Function	Flags	DPT type	Size
416	Humidity threshold value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
417	Humidity threshold value 2: Absolute value	Input / Output	CRWT	[9.7] DPT_Value_Humidity	2 Bytes
Reference point of setting and/or reading the Humidity threshold value 2					
418	Humidity threshold value 2: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Humidity threshold value 2					
419	Humidity threshold value 2: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 421 changes from 0 to 1, (after the measured value is over the threshold)					
420	Humidity threshold value 2: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 421 changes from 1 to 0, (after the measured value is under the threshold)					
421	Humidity threshold value 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) humidity threshold 1(On = 1 ; Off = 0)					
422	Humidity threshold value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
423	Humidity threshold value 3: Absolute value	Input / Output	CRWT	[9.7] DPT_Value_Humidity	2 Bytes
Reference point of setting and/or reading the Humidity threshold value 3					
424	Humidity threshold value 3: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Humidity threshold value 3					
425	Humidity threshold value 3: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 427 changes from 0 to 1, (after the measured value is over the threshold)					
426	Humidity threshold value 3: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 427 changes from 1 to 0, (after the measured value is under the threshold)					

No.	Text	Function	Flags	DPT type	Size
427	Humidity threshold value 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) humidity threshold 1(On = 1 ; Off = 0)					
428	Humidity threshold value 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
429	Humidity threshold value 4: Absolute value	Input / Output	CRWT	[9.7] DPT_Value_Humidity	2 Bytes
Reference point of setting and/or reading the Humidity threshold value 4					
430	Humidity threshold value 4: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Humidity threshold value 4					
431	Humidity threshold value 4: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 433 changes from 0 to 1, (after the measured value is over the threshold)					
432	Humidity threshold value 4: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 433 changes from 1 to 0, (after the measured value is under the threshold)					
433	Humidity threshold value 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) humidity threshold 1(On = 1 ; Off = 0)					
434	Humidity threshold value 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
461	Dewpoint: Measured value	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Automatically calculated dewpoint temperature value and sent on the bus.					
462	Coolant temp.: Threshold value	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Info to air conditioning system (threshold value = minimum nominal value of coolant temperature)					
463	Coolant temp.: Actual value	Input	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Surface temperature value measured.					

No.	Text	Function	Flags	DPT type	Size
464	Coolant temp.: Offset change (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Offset value					
465	Coolant temp.: Offset current	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Offset value used for altering the threshold value, where the Threshold value=Dew Point+Offset					
466	Coolant temp.: Switching delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 468 changes from 0 to 1, (after the measured value is over the threshold)					
467	Coolant temp.: Switching delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 468 changes from 1 to 0, (after the measured value is under the threshold)					
468	Coolant temp.: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) coolant temp threshold (On = 1 ; Off = 0)					
469	Coolant temp.: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
471	Absolute humidity [g/kg]	Output	CR-T	[14.5] DPT_Value_Amplitude	4 Bytes
Absolute Air Humidity Value detected and sent to the bus [g/kg].					
472	Absolute humidity [g/m³]	Output	CR-T	[9] 9.xxx	2 Bytes
Absolute Air Humidity Value detected and sent to the bus [g/m³].					
474	Ambient climate status: 1 = comfortable | 0 = uncomfortable	Output	CR-T	[1.1] DPT_Switch	1 Bit
The comfort field refers to a predefined range of conditions, specifically temperature and humidity (DIN 1946).					
475	Ambient climate status: Text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the two comfort fields.					
481	Air pressure sensor: Malfunction	Output	CR-T	[1.1] DPT_Switch	1 Bit
If enabled, it indicates if the Air pressure sensor is experiencing an error (1 = malfunction, 0 = no malfunction)					

No.	Text	Function	Flags	DPT type	Size
482	Air pressure sensor: Normal measurement [Pa]	Output	CR-T	[14.58] DPT_Value_Pressure	4 Bytes
The air pressure is the pressure measured directly by the sensor (without compensation).					
483	Air pressure sensor: Barometric measurement [Pa]	Output	CR-T	[14.58] DPT_Value_Pressure	4 Bytes
Sends the Barometric pressure compensated by altitude on the bus.					
484	Air pressure sensor: Min./max. measurement query	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Request the maximum and minimum Air pressure value recorded. Writing a 1 to the communication object triggers the Air pressure sensor to report its minimum and maximum measured values to the KNX bus					
485	Air pressure sensor: Min. normal measurement [Pa]	Output	CR-T	[14.58] DPT_Value_Pressure	4 Bytes
Minimum Normal Measured Value after Reset the bus send it back after requesting a query					
486	Air pressure sensor: Min. barometric measurement [Pa]	Output	CR-T	[14.58] DPT_Value_Pressure	4 Bytes
Minimum Barometric Measured Value after Reset the bus send it back after requesting a query					
487	Air pressure sensor: Max. normal measurement [Pa]	Output	CR-T	[14.58] DPT_Value_Pressure	4 Bytes
Maximum Normal Measured Value after Reset the bus send it back after requesting a query					
488	Air pressure sensor: Max. barometric measurement [Pa]	Output	CR-T	[14.58] DPT_Value_Pressure	4 Bytes
Maximum Barometric Value after Reset the bus send it back after requesting a query					
489	Air pressure sensor: Min./max. reading reset	Input	C-W-	[1.17] DPT_Trigger	1 Bit
Min./Max values reset after requesting them using the Measurement query (Obj.No. 484)					
490	Air pressure sensor: Pressure range text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output regarding Five Air pressure conditions.					
491	Air pressure threshold value 1: Absolute value	Input / Output	CRWT	[14.58] DPT_Value_Pressure	4 Bytes
Reference point of setting and/or reading the Air pressure threshold value 1					
492	Air pressure threshold value 1: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Air pressure threshold value 1					

No.	Text	Function	Flags	DPT type	Size
493	Air pressure threshold value 1: Delay from 0 to 1	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 495 changes from 0 to 1, (after the measured value is over the threshold)					
494	Air pressure threshold value 1: Delay from 1 to 0	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 495 changes from 1 to 0 (after the measured value is under the threshold)					
495	Air pressure threshold value 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) Air Pressure threshold 1(On = 1 ; Off = 0)					
496	Air pressure threshold value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
497	Air pressure threshold value 2: Absolute value	Input / Output	CRWT	[14.58] DPT_Value_Pressure	4 Bytes
Reference point of setting and/or reading the Air pressure threshold value 2					
498	Air pressure threshold value 2: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Air pressure threshold value 2					
499	Air pressure threshold value 2: Delay from 0 to 1	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 501 changes from 0 to 1, (after the measured value is over the threshold)					
500	Air pressure threshold value 2: Delay from 1 to 0	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 501 changes from 1 to 0 (after the measured value is under the threshold)					
501	Air pressure threshold value 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) Air Pressure threshold 1(On = 1 ; Off = 0)					
502	Air pressure threshold value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
503	Air pressure threshold value 3: Absolute value	Input / Output	CRWT	[14.58] DPT_Value_Pressure	4 Bytes
Reference point of setting and/or reading the Air pressure threshold value 3					

No.	Text	Function	Flags	DPT type	Size
504	Air pressure threshold value 3: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Air pressure threshold value 3					
505	Air pressure threshold value 3: Delay from 0 to 1	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 507 changes from 0 to 1, (after the measured value is over the threshold)					
506	Air pressure threshold value 3: Delay from 1 to 0	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 507 changes from 1 to 0 (after the measured value is under the threshold)					
507	Air pressure threshold value 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) Air Pressure threshold 1(On = 1 ; Off = 0)					
508	Air pressure threshold value 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					
509	Air pressure threshold value 4: Absolute value	Input / Output	CRWT	[14.58] DPT_Val-ue_Pressure	4 Bytes
Reference point of setting and/or reading the Air pressure threshold value 4					
510	Air pressure threshold value 4: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Air pressure threshold value 4					
511	Air pressure threshold value 4: Delay from 0 to 1	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 513 changes from 0 to 1, (after the measured value is over the threshold)					
512	Air pressure threshold value 4: Delay from 1 to 0	Input	C-W-	[7.5] DPT_Time-PeriodSec	2 Bytes
Indicating the time period in seconds that should be exceeded before Obj.No. 513 changes from 1 to 0 (after the measured value is under the threshold)					
513	Air pressure threshold value 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is above or under (considering the time delays) Air Pressure threshold 1(On = 1 ; Off = 0)					
514	Air pressure threshold value 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the switching output based on temperature threshold 1.					

No.	Text	Function	Flags	DPT type	Size
595	Summer compensation: Outdoor temperature	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Send the Outdoor temp to this Group adress.					
596	Summer compensation: Setpoint	Output	CR-T	[9.1] DPT_Value_Temp	2 Bytes
Target indoor temperature which is automatically adjusted based on outdoor temperature Value.					
597	Summer compensation: Block (1 = Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state to (block = 1 or allow = 0 ''default values'') the setpoint Obj.No. 596.					
609	Fac. Wind measurement 1 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 1 for façade automation					
610	Fac. Wind measurement 2 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 2 for façade automation					
611	Fac. Wind measurement 3 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 3 for façade automation					
612	Fac. Wind measurement 4 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 4 for façade automation					
613	Fac. Wind measurement 5 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 5 for façade automation					
614	Fac. Wind measurement 6 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 6 for façade automation					
615	Fac. Wind measurement 7 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 7 for façade automation					
616	Fac. Wind measurement 8 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 8 for façade automation					
617	Fac. Wind measurement 9 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 9 for façade automation					

No.	Text	Function	Flags	DPT type	Size
618	Fac. Wind measurement 10 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 10 for façade automation					
619	Fac. Wind measurement 11 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 11 for façade automation					
620	Fac. Wind measurement 12 in m/s	Input	-WCT	[9.5] DPT_Value_Wsp	2 Bytes
External wind measurement input 12 for façade automation					
621	Fac. Wind automation blocking duration in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Set a time for blocking the automation after wind alarm is triggered.					
622	Fac. Wind automation blocking duration in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the wind block duration value in minutes.					
623	Fac. Rain auto. Delay in minutes	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
wait this time after rain alarm is triggered before activating the façade automation.(To ensure a rainy weather is confirmed)					
624	Fac. Rain auto. Delay in minutes (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the rain detection delay duration value in minutes.					
625	Fac. Twilight threshold value in Lux	Input/Output	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Set value of twilight brightness, if (Brightness < Threshold) = night / (Brightness > Threshold) = day					
626	Fac. Twilight threshold value in Lux (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the Twilight value in Lux.					
627	Fac. Outside temperature (°C)	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Input the outdoor sensor for the façade automation.					
628	Fac. Heat protection threshold value in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Temperature heat protection value set to which when exceeded by actual temperature the protection mode is activated.					
629	Fac. Heat protection threshold value in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the Heat protection threshold value in °C.					

No.	Text	Function	Flags	DPT type	Size
630	Fac. Frost alarm start temperature in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Frost can be detected below this start TVL (Temperature Value limit).					
631	Fac. Frost alarm start temperature in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the Frost start temperature in °C.					
632	Fac. Frost alarm start delay in hours	Input/Output	CRWT	[7.7] DPT_TimePeriodHrs	2 Bytes
Delay time before the frost alarm is triggered ensures that the frost condition is confirmed, taking into account not only a temperature drop but also precipitation.					
633	Fac. Frost alarm start temperature in hours (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the Frost alarm start delay time in hours.					
634	Fac. Frost alarm stop temperature in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Frost is not detected anymore above this stop temperatue.					
635	Fac. Frost alarm stop temperature in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the Frost stop temperature in °C.					
636	Fac. Frost alarm stop delay in hours	Input/Output	CRWT	[7.7] DPT_TimePeriodHrs	2 Bytes
Delay time before the frost alarm is deactivated ensures that the system confirms the frost condition has truly ended, accounting for any potential temperature fluctuations or precipitation change, rather than stopping the alarm immediately after a slight temperature rise.					
637	Fac. Frost alarm stop delay in hours (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Increments or decrements the Frost alarm stop delay time in hours.					
638	Fac. Pyranometer measured value 1 in W/m²	Input	-WCT	[9.22] DPT_PowerDensity	2 Bytes
External Pyranometer measurement input 1 for façade automation (2bytes)					
639	Fac. Pyranometer measured value 1 in W/m²	Input	-WCT	[14.5] DPT_Value_Amplitude	4 Bytes
External Pyranometer measurement input 1 for façade automation (4bytes)					
640	Fac. Pyranometer measured value 2 in W/m²	Input	-WCT	[9.22] DPT_PowerDensity	2 Bytes
External Pyranometer measurement input 2 for façade automation (2bytes)					
641	Fac. Pyranometer measured value 2 in W/m²	Input	-WCT	[14.5] DPT_Value_Amplitude	4 Bytes

No.	Text	Function	Flags	DPT type	Size
External Pyranometer measurement input 2 for façade automation (4bytes)					
642	Fac. Pyranometer measured value 3 in W/m²	Input	-WCT	[9.22] DPT_PowerDensity	2 Bytes
External Pyranometer measurement input 3 for façade automation (2bytes)					
643	Fac. Pyranometer measured value 3 in W/m²	Input	-WCT	[14.5] DPT_Value_Amplitude	4 Bytes
External Pyranometer measurement input 3 for façade automation (4bytes)					
644	Fac. Pyranometer measured value 4 in W/m²	Input	-WCT	[9.22] DPT_PowerDensity	2 Bytes
External Pyranometer measurement input 4 for façade automation (2bytes)					
645	Fac. Pyranometer measured value 4 in W/m²	Input	-WCT	[14.5] DPT_Value_Amplitude	4 Bytes
External Pyranometer measurement input 4 for façade automation (4bytes)					
648	Fac. X channel status output (1: activate)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Output information for all façades can be activated when set to 1.					
649	Fac. X channel name	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Output of the façade name (when changing façades). Name of the parameter can be adapted.					
650	Fac. X channel (1:+ | 0:-)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Change to the next/previous façade between façades 1 to 12. 1 = next, 0 = previous. This selection influences the façade displayed in associated objects. E. g. the name of the selected façade is output in object 649 and the status text in object 651.					
651	Fac. X channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of the selected façade. (Safety, Wind extension block, ...)					
652	Fac. X channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
653	Fac. X channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
654	Fac. X channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
655	Fac. X channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Selects the states of the automatic functions (channel status bit information) for the selected façade, that are then output in objects 652 and 653. 1 = next status info, 0 = previous status info. The text for the selected information is output in object 652 and the condition (true or false) is output in object 653.					
656	Fac. Wind simulation in m/s	Input	CRW-	[9.5] DPT_Value_Wsp	2 Bytes
Simulation value of the Wind speed (m/s), used for façade different weather condtions tests.					
657	Fac. Wind extension blocking simulation (1: active)	Input	CRW-	[1.1] DPT_Switch	1 Bit
If the wind extension block is active, the façade couldn't extend anymore.(Remain in its position)					
658	Fac. Wind alarm simulation (1: active)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Simulation value of the Wind alarm. Ex: When = 1, move the face to the determined safe position.(if wind fuction is activated)					
659	Fac. Rain simulation (1: active)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Simulation value of the Rain alarm. Ex: When = 1, move the face to the determined safe position.(if rain fuction is activated).					
660	Fac. External temperature in °C simulation	Input	CRW-	[9.1] DPT_Value_Temp	2 Bytes
Simulation value of the External Temperature in (°C) used for façade different weather condtions tests.					
661	Fac. Internal temperature in °C simulation	Input	CRW-	[9.1] DPT_Value_Temp	2 Bytes
Simulation value of the Internal Temperature in (°C) used for façade different weather condtions tests.					
662	Fac. in Lux simulation	Input	CRW-	[9.4] DPT_Value_Lux	2 Bytes
Simulation value of the Brightness (Lux), used for façade different weather condtions tests.					
663	Fac. Sun intensity simulation in watts/m²	Input	CRW-	[9.22] DPT_PowerDensity	2 Bytes
Simulation value of the Brightness (watts/m2)''intensity of radiant energy'', The Output is 1. used for façade different weather condtions tests.					
664	Fac. Date simulation	Input	CRW-	[11.1] DPT_Date	3 Bytes
Date Value used for simulation. (Will affect the Sun location/direction/...)					

No.	Text	Function	Flags	DPT type	Size
665	Fac. Time simulation	Input	CRW-	[10.1] DPT_TimeOfDay	3 Bytes
Time Value used for simulation. (Will affect the Sun location/direction/...)					
666	Fac. Sun direction simulation in °, with date & time	Output	CR-T	[14.7] DPT_Value_AngleDeg	4 Bytes
Sun direction based on simulation Date and Time.					
667	Fac. Sun height simulation in °, with date & time	Output	CR-T	[14.7] DPT_Value_AngleDeg	4 Bytes
Sun Hight based on simulation Date and Time.					
668	Fac. Sun direction simulation in °	Input	CRW-	[14.7] DPT_Value_AngleDeg	4 Bytes
Sun direction in ° used for façade different weather condtions tests.					
669	Fac. Sun height simulation in °	Input	CRW-	[14.7] DPT_Value_AngleDeg	4 Bytes
Sun hight in ° used for façade different weather condtions tests.					
670	Fac. Reset simulation (1: reset)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Writing a 1 will reset all simulation values.					
671	Fac. Sun angle mode simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1, Sun angle is recieved via Obj. Nr. 668 & 669.					
672	Façade 1 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 1.					
673	Fac.1 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 1 can't be controlled. (Default)					
674	Façade 1 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 1 in different weather conditions (is it depending Wind, Rain, Frost); 1 = on/enabled, 0 = off/disabled.					
675	Façade 1 wind extension block (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 1 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position); 1 = on/enabled, 0 = off/disabled.					
676	Façade 1 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Reference point of setting and/or reading the Fac.1 Wind threshold value.					
677	Façade 1 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.1 Wind threshold value.					
678	Façade 1 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 1; 1 = on/enabled, 0 = off/disabled.					
679	Façade 1 wind alarm (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 1 and can initiate an action; 1 = on/enabled, 0 = off/disabled.					
680	Façade 1 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 1 Wind alarm threshold value.					
681	Façade 1 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 1 Wind alarm threshold value.					
682	Façade 1 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 1 (1 = alarm / wind value exceeded threshold value 1, 0 = no alarm). Transmission behaviour can be set within the parameters. Can also trigger an action. Will be set to 1 for safety reasons, when no value has been sent for 48 hrs					
683	Façade 1 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the frost alarm for façade 1 (1 = alarm / wind value exceeded threshold value 1, 0 = no alarm). Transmission behaviour can be set within the parameters. Can also trigger an action. Will be set to 1 for safety reasons, when no value has been sent for 48 hrs					
684	Fac.1 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 1 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
685	Façade 1 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the rain alarm (1 = alarm / precipitation detected, 0 = no alarm). Transmission behaviour can be set within the parameters.					
686	Fac.1 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 1 timed opening function.					

No.	Text	Function	Flags	DPT type	Size
687	Façade 1 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 1 timed opening function.(1= Timed Opening function is active); 1 = on/enabled, 0 = off/disabled.					
688	Fac.1 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 1 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
689	Fac.1 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 1 used for setting or reading the Temperature block value in °C.					
690	Fac.1 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 1.					
691	Fac.1 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 1 external Temperature block function. (Active = 1 or inactive = 0)					
692	Fac.1 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 1 timed closure function. Default					
693	Façade 1 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 1 timed closure function.(1= Timed Closure function is active); 1 = on/enabled, 0 = off/disabled.					
694	Fac.1 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 1 night closure function. Default					
695	Façade 1 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 1 timed closure function.(1= Night Closure function is active); 1 = on/enabled, 0 = off/disabled.					
696	Fac.1 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 1 Heat Protection function. Default					
697	Façade 1 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 1 Heat Protection function.(1= Heat Protection function is active); 1 = on/enabled, 0 = off/disabled.					

No.	Text	Function	Flags	DPT type	Size
698	Fac.1 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 1 is (1 = activated or 0 = deactivated). Default					
699	Façade 1 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 1 Pyranometer (Light intensity) threshold value.					
700	Façade 1 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 1 Pyranometer (Light intensity) threshold value.					
701	Façade 1 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 1 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
702	Façade 1 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 1 automation.					
703	Fac.1 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 1 is (1 = activated or 0 = deactivated). Default					
704	Fac.1 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 1 according to the internal Temperature in °C.					
705	Fac.1 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.1 internal Temperature block threshold value.					
706	Fac.1 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active); 1 = on/enabled, 0 = off/disabled.					
707	Façade 1 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 1 internal temp blocking function.					
708	Fac.1 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 1 automation based on Sun (1 = active/ 0 = inactive). Default					

No.	Text	Function	Flags	DPT type	Size
709	Fac.1 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
710	Fac.1 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.1 Sun starting Azimuth angle value.					
711	Fac.1 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.1 Sun Ending Azimuth angle in (°).					
712	Fac.1 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.1 Sun ending Azimuth angle value.					
713	Fac.1 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.1 Sun starting Elevation angle in (°).					
714	Fac.1 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.1 Sun starting Elevation angle value.					
715	Fac.1 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.1 Sun Ending Elevation angle in (°).					
716	Fac.1 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.1 Sun ending Elevation angle value.					
717	Fac.1 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 1 automation then the value is 1.					
718	Fac.1 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.1 in Lux.					
719	Fac.1 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.1 threshold value.					
720	Fac.1 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.1 threshold value.					

No.	Text	Function	Flags	DPT type	Size
721	Fac.1 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
722	Fac.1 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
723	Façade 1 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
724	Façade 1 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.1 extension delay value.					
725	Façade 1 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
726	Façade 1 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.1 extension delay value.					
727	Façade 1 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
728	Façade 1 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.1 retraction delay value.					
729	Façade 1 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 1.					
730	Fac.1 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 1.					
731	Façade 1 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.1 channel is activated or not.					

No.	Text	Function	Flags	DPT type	Size
732	Façade 1 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 1 (Safety, Wind extension block, ...)					
733	Façade 1 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
734	Façade 1 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
735	Façade 1 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
736	Façade 1 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Selects the states of the automatic functions (channel status bit information) for façade 1, that are then output in objects 732 and 733. 1 = next status info, 0 = previous status info. The text for the selected information is output in object 732 and the condition (true or false) is output in object 733.					
741	Façade 2 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 2.					
742	Fac.2 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 2 can't be controlled. (Default)					
743	Façade 2 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 2 in different weather conditions (is it depending Wind, Rain, Frost).					
744	Façade 2 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 2 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
745	Façade 2 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.2 Wind threshold value.					
746	Façade 2 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 the Fac.2 Wind threshold value.					
747	Façade 2 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 2.					
748	Façade 2 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 2 and can initiate an action.					
749	Façade 2 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 2 Wind alarm threshold value.					
750	Façade 2 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 2 Wind alarm threshold value.					
751	Façade 2 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 2 (1=Wind value exceeded threshold 2), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
752	Façade 2 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 2, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
753	Fac.2 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 2 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
754	Façade 2 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
755	Fac.2 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 2 timed opening function.					
756	Façade 2 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 2 timed opening function.(1= Timed Opening function is active)					
757	Fac.2 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 2 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					

No.	Text	Function	Flags	DPT type	Size
758	Fac.2 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 2 used for setting or reading the Temperature block value in °C.					
759	Fac.2 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 2.					
760	Fac.2 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 2 external Temperature block function. (Active = 1 or inactive = 0)					
761	Fac.2 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 2 timed closure function. Default					
762	Façade 2 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 2 timed closure function.(1= Timed Closure function is active)					
763	Fac.2 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 2 night closure function. Default					
764	Façade 2 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 2 timed closure function.(1= Night Closure function is active)					
765	Fac.2 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 2 Heat Protection function. Default					
766	Façade 2 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 2 Heat Protection function.(1= Heat Protection function is active)					
767	Fac.2 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 2 is (1 = activated or 0 = deactivated). Default					
768	Façade 2 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 2 Pyranometer (Light intensity) threshold value.					
769	Façade 2 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 the Façade 2 Pyranometer (Light intensity) threshold value.					
770	Façade 2 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 2 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
771	Façade 2 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 2 automation.					
772	Fac.2 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 2 is (1 = activated or 0 = deactivated). Default					
773	Fac.2 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 2 according to the internal Temperature in °C.					
774	Fac.2 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.2 internal Temperature block threshold value.					
775	Fac.2 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
776	Façade 2 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 2 internal temp blocking function.					
777	Fac.2 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 2 automation based on Sun (1 = active/ 0 = inactive). Default					
778	Fac.2 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
779	Fac.2 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.2 Sun starting Azimuth angle value.					
780	Fac.2 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.2 Sun Ending Azimuth angle in (°).					

No.	Text	Function	Flags	DPT type	Size
781	Fac.2 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.2 Sun ending Azimuth angle value.					
782	Fac.2 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.2 Sun starting Elevation angle in (°).					
783	Fac.2 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.2 Sun starting Elevation angle value.					
784	Fac.2 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.2 Sun Ending Elevation angle in (°).					
785	Fac.2 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.2 Sun ending Elevation angle value.					
786	Fac.2 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 2 automation then the value is 1.					
787	Fac.2 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.2 in Lux.					
788	Fac.2 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.2 threshold value.					
789	Fac.2 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.2 threshold value.					
790	Fac.2 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
791	Fac.2 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
792	Façade 2 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
793	Façade 2 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.2 extension delay value.					
794	Façade 2 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
795	Façade 2 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.2 extension delay value.					
796	Façade 2 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
797	Façade 2 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.2 retraction delay value.					
798	Façade 2 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 2.					
799	Fac.2 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 2.					
800	Façade 2 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.2 channel is activated or not.					
801	Façade 2 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 2 (Safety, Wind extension block, ...)					
802	Façade 2 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
803	Façade 2 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					

No.	Text	Function	Flags	DPT type	Size
804	Façade 2 channel delay	Output	CR-T	[7.5] DPT_Time-PeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
805	Façade 2 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 2.					
810	Façade 3 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 3.					
811	Fac.3 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 3 can't be controlled. (Default)					
812	Façade 3 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 3 in different weather conditions (is it depending Wind, Rain, Frost).					
813	Façade 3 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 3 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
814	Façade 3 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.3 Wind threshold value.					
815	Façade 3 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.3 Wind threshold value.					
816	Façade 3 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 3.					
817	Façade 3 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 3 and can initiate an action.					
818	Façade 3 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 3 Wind alarm threshold value.					
819	Façade 3 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Façade 3 Wind alarm threshold value.					
820	Façade 3 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 3 (1=Wind value exceeded threshold 3), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
821	Façade 3 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 3, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
822	Fac.3 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 3 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
823	Façade 3 rain alarm status (1: On | 0: Off)	Output	CR-T	[1] 1.xxx, [1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
824	Fac.3 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 3 timed opening function.					
825	Façade 3 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 3 timed opening function.(1= Timed Opening function is active)					
826	Fac.3 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 3 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
827	Fac.3 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 3 used for setting or reading the Temperature block value in °C.					
828	Fac.3 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 3.					
829	Fac.3 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 3 external Temperature block function. (Active = 1 or inactive = 0)					
830	Fac.3 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 3 timed closure function. Default					

No.	Text	Function	Flags	DPT type	Size
831	Façade 3 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 3 timed closure function.(1= Timed Closure function is active)					
832	Fac.3 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 3 night closure function. Default					
833	Façade 3 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 3 timed closure function.(1= Night Closure function is active)					
834	Fac.3 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 3 Heat Protection function. Default					
835	Façade 3 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 3 Heat Protection function.(1= Heat Protection function is active)					
836	Fac.3 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 3 is (1 = activated or 0 = deactivated). Default					
837	Façade 3 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 3 Pyranometer (Light intensity) threshold value.					
838	Façade 3 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 3 Pyranometer (Light intensity) threshold value.					
839	Façade 3 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 3 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
840	Façade 3 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 3 automation.					
841	Fac.3 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 3 is (1 = activated or 0 = deactivated). Default					
842	Fac.3 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Threshold value used to block the façade 3 according to the internal Temperature in °C.					
843	Fac.3 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.3 internal Temperature block threshold value.					
844	Fac.3 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
845	Façade 3 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 3 internal temp blocking function.					
846	Fac.3 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 3 automation based on Sun (1 = active/ 0 = inactive). Default					
847	Fac.3 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
848	Fac.3 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.3 Sun starting Azimuth angle value.					
849	Fac.3 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.3 Sun Ending Azimuth angle in (°).					
850	Fac.3 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.3 Sun ending Azimuth angle value.					
851	Fac.3 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.3 Sun starting Elevation angle in (°).					
852	Fac.3 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.3 Sun starting Elevation angle value.					
853	Fac.3 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.3 Sun Ending Elevation angle in (°).					
854	Fac.3 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.3 Sun ending Elevation angle value.					
855	Fac.3 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 3 automation then the value is 1.					
856	Fac.3 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.3 in Lux.					
857	Fac.3 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.3 threshold value.					
858	Fac.3 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.3 threshold value.					
859	Fac.3 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
860	Fac.3 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
861	Façade 3 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
862	Façade 3 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.3 extension delay value.					
863	Façade 3 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
864	Façade 3 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.3 extension delay value.					
865	Façade 3 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
866	Façade 3 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.3 retraction delay value.					
867	Façade 3 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 3.					
868	Fac.3 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 3.					
869	Façade 3 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.3 channel is activated or not.					
870	Façade 3 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 3 (Safety, Wind extension block, ...)					
871	Façade 3 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
872	Façade 3 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
873	Façade 3 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
874	Façade 3 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 3.					
879	Façade 4 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 4.					
880	Fac.4 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 4 can't be controlled. (Default)					

No.	Text	Function	Flags	DPT type	Size
881	Façade 4 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 4 in different weather conditions (is it depending Wind, Rain, Frost).					
882	Façade 4 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 4 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
883	Façade 4 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.4 Wind threshold value.					
884	Façade 4 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.4 Wind threshold value.					
885	Façade 4 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 4.					
886	Façade 4 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 4 and can initiate an action.					
887	Façade 4 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 4 Wind alarm threshold value.					
888	Façade 4 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 4 Wind alarm threshold value.					
889	Façade 4 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 4 (1=Wind value exceeded threshold 4), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
890	Façade 4 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 4, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
891	Fac.4 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 4 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					

No.	Text	Function	Flags	DPT type	Size
892	Façade 4 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
893	Fac.4 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 4 timed opening function.					
894	Façade 4 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 4 timed opening function.(1= Timed Opening function is active)					
895	Fac.4 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 4 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
896	Fac.4 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 4 used for setting or reading the Temperature block value in °C.					
897	Fac.4 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 4.					
898	Fac.4 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 4 external Temperature block function. (Active = 1 or inactive = 0)					
899	Fac.4 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 4 timed closure function. Default					
900	Façade 4 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 4 timed closure function.(1= Timed Closure function is active)					
901	Fac.4 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 4 night closure function. Default					
902	Façade 4 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 4 timed closure function.(1= Night Closure function is active)					
903	Fac.4 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 4 Heat Protection function. Default					

No.	Text	Function	Flags	DPT type	Size
904	Façade 4 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 4 Heat Protection function.(1= Heat Protection function is active)					
905	Fac.4 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 4 is (1 = activated or 0 = deactivated). Default					
906	Façade 4 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 4 Pyranometer (Light intensity) threshold value.					
907	Façade 4 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 4 Pyranometer (Light intensity) threshold value.					
908	Façade 4 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 4 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
909	Façade 4 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 4 automation.					
910	Fac.4 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 4 is (1 = activated or 0 = deactivated). Default					
911	Fac.4 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 4 according to the internal Temperature in °C.					
912	Fac.4 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.4 internal Temperature block threshold value.					
913	Fac.4 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
914	Façade 4 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 4 internal temp blocking function.					
915	Fac.4 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit

No.	Text	Function	Flags	DPT type	Size
Send 1 to this obj to activate Façade 4 automation based on Sun (1 = active/ 0 = inactive). Default					
916	Fac.4 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
917	Fac.4 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.4 Sun starting Azimuth angle value.					
918	Fac.4 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.4 Sun Ending Azimuth angle in (°).					
919	Fac.4 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.4 Sun ending Azimuth angle value.					
920	Fac.4 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.4 Sun starting Elevation angle in (°).					
921	Fac.4 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.4 Sun starting Elevation angle value.					
922	Fac.4 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.4 Sun Ending Elevation angle in (°).					
923	Fac.4 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.4 Sun ending Elevation angle value.					
924	Fac.4 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 4 automation then the value is 1.					
925	Fac.4 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.4 in Lux.					
926	Fac.4 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.4 threshold value.					
927	Fac.4 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.4 threshold value.					
928	Fac.4 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
929	Fac.4 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
930	Façade 4 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
931	Façade 4 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.4 extension delay value.					
932	Façade 4 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
933	Façade 4 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.4 extension delay value.					
934	Façade 4 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
935	Façade 4 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.4 retraction delay value.					
936	Façade 4 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 4.					
937	Fac.4 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 4.					
938	Façade 4 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.4 channel is activated or not.					

No.	Text	Function	Flags	DPT type	Size
939	Façade 4 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 4 (Safety, Wind extension block, ...)					
940	Façade 4 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
941	Façade 4 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
942	Façade 4 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
943	Façade 4 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 4.					
948	Façade 5 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 5.					
949	Fac.5 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 5 can't be controlled. (Default)					
950	Façade 5 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 5 in different weather conditions (is it depending Wind, Rain, Frost).					
951	Façade 5 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 5 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
952	Façade 5 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.5 Wind threshold value.					
953	Façade 5 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.5 Wind threshold value.					

No.	Text	Function	Flags	DPT type	Size
954	Façade 5 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 5.					
955	Façade 5 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 5 and can initiate an action.					
956	Façade 5 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 5 Wind alarm threshold value.					
957	Façade 5 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 5 Wind alarm threshold value.					
958	Façade 5 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 5 (1=Wind value exceeded threshold 5), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
959	Façade 5 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 5, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
960	Fac.5 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 5 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
961	Façade 5 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
962	Fac.5 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 5 timed opening function.					
963	Façade 5 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 5 timed opening function.(1= Timed Opening function is active)					
964	Fac.5 outside temp. Release/block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 5 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
965	Fac.5 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
It is a Reference Point of façade 5 used for setting or reading the Temperature block value in °C.					
966	Fac.5 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 5.					
967	Fac.5 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 5 external Temperature block function. (Active = 1 or inactive = 0)					
968	Fac.5 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 5 timed closure function. Default					
969	Façade 5 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 5 timed closure function.(1= Timed Closure function is active)					
970	Fac.5 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 5 night closure function. Default					
971	Façade 5 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 5 timed closure function.(1= Night Closure function is active)					
972	Fac.5 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 5 Heat Protection function. Default					
973	Façade 5 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 5 Heat Protection function.(1= Heat Protection function is active)					
974	Fac.5 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 5 is (1 = activated or 0 = deactivated). Default					
975	Façade 5 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 5 Pyranometer (Light intensity) threshold value.					
976	Façade 5 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 5 Pyranometer (Light intensity) threshold value.					

No.	Text	Function	Flags	DPT type	Size
977	Façade 5 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 5 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
978	Façade 5 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 5 automation.					
979	Fac.5 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 5 is (1 = activated or 0 = deactivated). Default					
980	Fac.5 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 5 according to the internal Temperature in °C.					
981	Fac.5 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.5 internal Temperature block threshold value.					
982	Fac.5 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
983	Façade 5 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 5 internal temp blocking function.					
984	Fac.5 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 5 automation based on Sun (1 = active/ 0 = inactive). Default					
985	Fac.5 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
986	Fac.5 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.5 Sun starting Azimuth angle value.					
987	Fac.5 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.5 Sun Ending Azimuth angle in (°).					
988	Fac.5 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.1] DPT_Switch	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.5 Sun ending Azimuth angle value.					
989	Fac.5 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.5 Sun starting Elevation angle in (°).					
990	Fac.5 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.5 Sun starting Elevation angle value.					
991	Fac.5 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.5 Sun Ending Elevation angle in (°).					
992	Fac.5 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.5 Sun ending Elevation angle value.					
993	Fac.5 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 5 automation then the value is 1.					
994	Fac.5 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.5 in Lux.					
995	Fac.5 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.5 threshold value.					
996	Fac.5 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.5 threshold value.					
997	Fac.5 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
998	Fac.5 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
999	Façade 5 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					

No.	Text	Function	Flags	DPT type	Size
1000	Façade 5 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.5 extension delay value.					
1001	Façade 5 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1002	Façade 5 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.5 extension delay value.					
1003	Façade 5 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1004	Façade 5 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.5 retraction delay value.					
1005	Façade 5 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 5.					
1006	Fac.5 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 5.					
1007	Façade 5 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.5 channel is activated or not.					
1008	Façade 5 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 5 (Safety, Wind extension block, ...)					
1009	Façade 5 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1010	Façade 5 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1011	Façade 5 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1012	Façade 5 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 5.					
1017	Façade 6 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 6.					
1018	Fac.6 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 6 can't be controlled. (Default)					
1019	Façade 6 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 6 in different weather conditions (is it depending Wind, Rain, Frost).					
1020	Façade 6 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 6 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1021	Façade 6 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.6 Wind threshold value.					
1022	Façade 6 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.6 Wind threshold value.					
1023	Façade 6 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 6.					
1024	Façade 6 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 6 and can initiate an action.					
1025	Façade 6 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 6 Wind alarm threshold value.					
1026	Façade 6 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 6 Wind alarm threshold value.					

No.	Text	Function	Flags	DPT type	Size
1027	Façade 6 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 6 (1=Wind value exceeded threshold 6), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1028	Façade 6 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 6, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1029	Fac.6 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 6 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
1030	Façade 6 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1031	Fac.6 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 6 timed opening function.					
1032	Façade 6 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 6 timed opening function.(1= Timed Opening function is active)					
1033	Fac.6 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 6 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1034	Fac.6 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 6 used for setting or reading the Temperature block value in °C.					
1035	Fac.6 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 6.					
1036	Fac.6 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 6 external Temperature block function. (Active = 1 or inactive = 0)					
1037	Fac.6 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 6 timed closure function. Default					

No.	Text	Function	Flags	DPT type	Size
1038	Façade 6 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 6 timed closure function.(1= Timed Closure function is active)					
1039	Fac.6 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 6 night closure function. Default					
1040	Façade 6 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 6 timed closure function.(1= Night Closure function is active)					
1041	Fac.6 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 6 Heat Protection function. Default					
1042	Façade 6 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 6 Heat Protection function.(1= Heat Protection function is active)					
1043	Fac.6 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 6 is (1 = activated or 0 = deactivated). Default					
1044	Façade 6 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 6 Pyranometer (Light intensity) threshold value.					
1045	Façade 6 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 6 Pyranometer (Light intensity) threshold value.					
1046	Façade 6 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 6 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1047	Façade 6 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 6 automation.					
1048	Fac.6 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 6 is (1 = activated or 0 = deactivated). Default					
1049	Fac.6 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Threshold value used to block the façade 6 according to the internal Temperature in °C.					
1050	Fac.6 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.6 internal Temperature block threshold value.					
1051	Fac.6 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1052	Façade 6 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 6 internal temp blocking function.					
1053	Fac.6 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 6 automation based on Sun (1 = active/ 0 = inactive). Default					
1054	Fac.6 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1055	Fac.6 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to increment=1 or decrement=0 Fac.6 Sun starting Azimuth angle value.					
1056	Fac.6 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.6 Sun Ending Azimuth angle in (°).					
1057	Fac.6 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.6 Sun ending Azimuth angle value.					
1058	Fac.6 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.6 Sun starting Elevation angle in (°).					
1059	Fac.6 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.6 Sun starting Elevation angle value.					
1060	Fac.6 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.6 Sun Ending Elevation angle in (°).					
1061	Fac.6 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.6 Sun ending Elevation angle value.					
1062	Fac.6 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 6 automation then the value is 1.					
1063	Fac.6 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.6 in Lux.					
1064	Fac.6 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.6 threshold value.					
1065	Fac.6 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.6 threshold value.					
1066	Fac.6 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1067	Fac.6 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1068	Façade 6 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
1069	Façade 6 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.6 extension delay value.					
1070	Façade 6 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1071	Façade 6 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.6 extension delay value.					
1072	Façade 6 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1073	Façade 6 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.6 retraction delay value.					
1074	Façade 6 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 6.					
1075	Fac.6 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 6.					
1076	Façade 6 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.6 channel is activated or not.					
1077	Façade 6 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 6 (Safety, Wind extension block, ...)					
1078	Façade 6 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1079	Façade 6 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1080	Façade 6 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1081	Façade 6 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 6.					
1086	Façade 7 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 7.					
1087	Fac.7 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 7 can't be controlled. (Default)					

No.	Text	Function	Flags	DPT type	Size
1088	Façade 7 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 7 in different weather conditions (is it depending Wind, Rain, Frost).					
1089	Façade 7 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 7 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1090	Façade 7 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.7 Wind threshold value.					
1091	Façade 7 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.7 Wind threshold value.					
1092	Façade 7 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 7.					
1093	Façade 7 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 7 and can initiate an action.					
1094	Façade 7 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 7 Wind alarm threshold value.					
1095	Façade 7 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 7 Wind alarm threshold value.					
1096	Façade 7 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 7 (1=Wind value exceeded threshold 7), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1097	Façade 7 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 7, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1098	Fac.7 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 7 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					

No.	Text	Function	Flags	DPT type	Size
1099	Façade 7 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1100	Fac.6 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 7 timed opening function.					
1101	Façade 7 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 7 timed opening function.(1= Timed Opening function is active)					
1102	Fac.7 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 7 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1103	Fac.7 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 7 used for setting or reading the Temperature block value in °C.					
1104	Fac.7 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 7.					
1105	Fac.7 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 7 external Temperature block function. (Active = 1 or inactive = 0)					
1106	Fac.7 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 7 timed closure function. Default					
1107	Façade 7 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 7 timed closure function.(1= Timed Closure function is active)					
1108	Fac.7 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 7 night closure function. Default					
1109	Façade 7 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 7 timed closure function.(1= Night Closure function is active)					
1110	Fac.7 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 7 Heat Protection function. Default					

No.	Text	Function	Flags	DPT type	Size
1111	Façade 7 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 7 Heat Protection function.(1= Heat Protection function is active)					
1112	Fac.7 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 7 is (1 = activated or 0 = deactivated). Default					
1113	Façade 7 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 7 Pyranometer (Light intensity) threshold value.					
1114	Façade 7 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 7 Pyranometer (Light intensity) threshold value.					
1115	Façade 7 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 7 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1116	Façade 7 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 7 automation.					
1117	Fac.7 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 7 is (1 = activated or 0 = deactivated). Default					
1118	Fac.7 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 7 according to the internal Temperature in °C.					
1119	Fac.7 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.7 internal Temperature block threshold value.					
1120	Fac.7 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1121	Façade 7 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 7 internal temp blocking function.					
1122	Fac.7 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit

No.	Text	Function	Flags	DPT type	Size
Send 1 to this obj to activate Façade 7 automation based on Sun (1 = active/ 0 = inactive). Default					
1123	Fac.7 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1124	Fac.7 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.7 Sun starting Azimuth angle value.					
1125	Fac.7 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.7 Sun Ending Azimuth angle in (°).					
1126	Fac.7 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to increment=1 or decrement=0 Fac.7 Sun ending Azimuth angle value.					
1127	Fac.7 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.7 Sun starting Elevation angle in (°).					
1128	Fac.7 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.7 Sun starting Elevation angle value.					
1129	Fac.7 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.7 Sun Ending Elevation angle in (°).					
1130	Fac.7 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.7 Sun ending Elevation angle value.					
1131	Fac.7 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 7 automation then the value is 1.					
1132	Fac.7 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.7 in Lux.					
1133	Fac.7 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.7 threshold value.					
1134	Fac.7 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.7 threshold value.					
1135	Fac.7 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1136	Fac.7 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1137	Façade 7 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
1138	Façade 7 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.7 extension delay value.					
1139	Façade 7 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1140	Façade 7 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.7 extension delay value.					
1141	Façade 7 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1142	Façade 7 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.7 retraction delay value.					
1143	Façade 7 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 7.					
1144	Fac.7 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 7.					
1145	Façade 7 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.7 channel is activated or not.					

No.	Text	Function	Flags	DPT type	Size
1146	Façade 7 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 7 (Safety, Wind extension block, ...)					
1147	Façade 7 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1148	Façade 7 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1149	Façade 7 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1150	Façade 7 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 7.					
1155	Façade 8 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 8.					
1156	Fac.8 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 8 can't be controlled. (Default)					
1157	Façade 8 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 8 in different weather conditions (is it depending Wind, Rain, Frost).					
1158	Façade 8 wind extension block (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 8 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1159	Façade 8 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.8 Wind threshold value.					
1160	Façade 8 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.8 Wind threshold value.					

No.	Text	Function	Flags	DPT type	Size
1161	Façade 8 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 8.					
1162	Façade 8 wind alarm (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 8 and can initiate an action.					
1163	Façade 8 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 8 Wind alarm threshold value.					
1164	Façade 8 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to increment=1 or decrement=0 Façade 8 Wind alarm threshold value.					
1165	Façade 8 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 8 (1=Wind value exceeded threshold 8), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1166	Façade 8 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 8, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1167	Fac.8 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 8 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
1168	Façade 8 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1169	Fac.8 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 8 timed opening function.					
1170	Façade 8 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 8 timed opening function.(1= Timed Opening function is active)					
1171	Fac.8 outside temp. Release/block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 8 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1172	Fac.8 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
It is a Reference Point of façade 8 used for setting or reading the Temperature block value in °C.					
1173	Fac.8 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 8.					
1174	Fac.8 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 8 external Temperature block function. (Active = 1 or inactive = 0)					
1175	Fac.8 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 8 timed closure function. Default					
1176	Façade 8 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 8 timed closure function.(1= Timed Closure function is active)					
1177	Fac.8 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 8 night closure function. Default					
1178	Façade 8 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 8 timed closure function.(1= Night Closure function is active)					
1179	Fac.8 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 8 Heat Protection function. Default					
1180	Façade 8 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 8 Heat Protection function.(1= Heat Protection function is active)					
1181	Fac.8 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 8 is (1 = activated or 0 = deactivated). Default					
1182	Façade 8 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 8 Pyranometer (Light intensity) threshold value.					
1183	Façade 8 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 8 Pyranometer (Light intensity) threshold value.					

No.	Text	Function	Flags	DPT type	Size
1184	Façade 8 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 8 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1185	Façade 8 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 8 automation.					
1186	Fac.8 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 8 is (1 = activated or 0 = deactivated). Default					
1187	Fac.8 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 8 according to the internal Temperature in °C.					
1188	Fac.8 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to increment=1 or decrement=0 the Fac.8 internal Temperature block threshold value.					
1189	Fac.8 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1190	Façade 8 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 8 internal temp blocking function.					
1191	Fac.8 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 8 automation based on Sun (1 = active/ 0 = inactive). Default					
1192	Fac.8 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1193	Fac.8 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.8 Sun starting Azimuth angle value.					
1194	Fac.8 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.8 Sun Ending Azimuth angle in (°).					
1195	Fac.8 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.8 Sun ending Azimuth angle value.					
1196	Fac.8 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.8 Sun starting Elevation angle in (°).					
1197	Fac.8 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.8 Sun starting Elevation angle value.					
1198	Fac.8 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.8 Sun Ending Elevation angle in (°).					
1199	Fac.8 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.8 Sun ending Elevation angle value.					
1200	Fac.8 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 8 automation then the value is 1.					
1201	Fac.8 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.8 in Lux.					
1202	Fac.8 Sun auto. threshold value in lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.8 threshold value.					
1203	Fac.8 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.8 threshold value.					
1204	Fac.8 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1205	Fac.8 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1206	Façade 8 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					

No.	Text	Function	Flags	DPT type	Size
1207	Façade 8 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.8 extension delay value.					
1208	Façade 8 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1209	Façade 8 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.8 extension delay value.					
1210	Façade 8 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1211	Façade 8 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.8 retraction delay value.					
1212	Façade 8 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 8.					
1213	Fac.8 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 8.					
1214	Façade 8 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.8 channel is activated or not.					
1215	Façade 8 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 8 (Safety, Wind extension block, ...)					
1216	Façade 8 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1217	Façade 8 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1218	Façade 8 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1219	Façade 8 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 8.					
1224	Façade 9 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 9.					
1225	Fac.9 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 9 can't be controlled. (Default)					
1226	Façade 9 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 9 in different weather conditions (is it depending Wind, Rain, Frost).					
1227	Façade 9 wind extension block (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 9 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1228	Façade 9 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.9 Wind threshold value.					
1229	Façade 9 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.9 Wind threshold value.					
1230	Façade 9 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 9.					
1231	Façade 9 wind alarm (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 9 and can initiate an action.					
1232	Façade 9 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 9 Wind alarm threshold value.					
1233	Façade 9 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 9 Wind alarm threshold value.					

No.	Text	Function	Flags	DPT type	Size
1234	Façade 9 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 9 (1=Wind value exceeded threshold 9), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1235	Façade 9 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 9, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1236	Fac.9 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 9 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
1237	Façade 9 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1238	Fac.9 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 9 timed opening function.					
1239	Façade 9 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 9 timed opening function.(1= Timed Opening function is active)					
1240	Fac.9 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 9 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1241	Fac.9 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 9 used for setting or reading the Temperature block value in °C.					
1242	Fac.9 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 9.					
1243	Fac.9 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 9 external Temperature block function. (Active = 1 or inactive = 0)					
1244	Fac.9 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 9 timed closure function. Default					

No.	Text	Function	Flags	DPT type	Size
1245	Façade 9 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 9 timed closure function.(1= Timed Closure function is active)					
1246	Fac.9 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 9 night closure function. Default					
1247	Façade 9 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 9 timed closure function.(1= Night Closure function is active)					
1248	Fac.9 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 9 Heat Protection function. Default					
1249	Façade 9 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 9 Heat Protection function.(1= Heat Protection function is active)					
1250	Fac.9 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 9 is (1 = activated or 0 = deactivated). Default					
1251	Façade 9 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 9 Pyranometer (Light intensity) threshold value.					
1252	Façade 9 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 9 Pyranometer (Light intensity) threshold value.					
1253	Façade 9 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 9 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1254	Façade 9 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 9 automation.					
1255	Fac.9 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 9 is (1 = activated or 0 = deactivated). Default					
1256	Fac.9 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Threshold value used to block the façade 9 according to the internal Temperature in °C.					
1257	Fac.9 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.9 internal Temperature block threshold value.					
1258	Fac.9 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1259	Façade 9 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 9 internal temp blocking function.					
1260	Fac.9 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 9 automation based on Sun (1 = active/ 0 = inactive). Default					
1261	Fac.9 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1262	Fac.9 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.9 Sun starting Azimuth angle value.					
1263	Fac.9 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.9 Sun Ending Azimuth angle in (°).					
1264	Fac.9 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.9 Sun ending Azimuth angle value.					
1265	Fac.9 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.9 Sun starting Elevation angle in (°).					
1266	Fac.9 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.9 Sun starting Elevation angle value.					
1267	Fac.9 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.9 Sun Ending Elevation angle in (°).					
1268	Fac.9 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.9 Sun ending Elevation angle value.					
1269	Fac.9 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 9 automation then the value is 1.					
1270	Fac.9 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.9 in Lux.					
1271	Fac.9 Sun auto. threshold value in Lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.9 threshold value.					
1272	Fac.9 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.9 threshold value.					
1273	Fac.9 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1274	Fac.9 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1275	Façade 9 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
1276	Façade 9 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.9 extension delay value.					
1277	Façade 9 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1278	Façade 9 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.9 extension delay value.					
1279	Façade 9 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1280	Façade 9 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.9 retraction delay value.					
1281	Façade 9 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 9.					
1282	Fac.9 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 9.					
1283	Façade 9 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.9 channel is activated or not.					
1284	Façade 9 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 9 (Safety, Wind extension block, ...)					
1285	Façade 9 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1286	Façade 9 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1287	Façade 9 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1288	Façade 9 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 9.					
1293	Façade 10 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 10.					
1294	Fac.10 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 10 can't be controlled. (Default)					

No.	Text	Function	Flags	DPT type	Size
1295	Façade 10 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 10 in different weather conditions (is it depending Wind, Rain, Frost).					
1296	Façade 10 wind extension block (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 10 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1297	Façade 10 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.10 Wind threshold value.					
1298	Façade 10 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.10 Wind threshold value.					
1299	Façade 10 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 10.					
1300	Façade 10 wind alarm (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 10 and can initiate an action.					
1301	Façade 10 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 10 Wind alarm threshold value.					
1302	Façade 10 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 10 Wind alarm threshold value.					
1303	Façade 10 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 10 (1=Wind value exceeded threshold 10), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1304	Façade 10 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 10, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1305	Fac.10 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 10 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					

No.	Text	Function	Flags	DPT type	Size
1306	Façade 10 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1307	Fac.10 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 10 timed opening function.					
1308	Façade 10 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 10 timed opening function.(1= Timed Opening function is active)					
1309	Fac.10 outside temp. Release/ block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 10 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1310	Fac.10 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 10 used for setting or reading the Temperature block value in °C.					
1311	Fac.10 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 10.					
1312	Fac.10 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 10 external Temperature block function. (Active = 1 or inactive = 0)					
1313	Fac.10 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 10 timed closure function. Default					
1314	Façade 10 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 10 timed closure function.(1= Timed Closure function is active)					
1315	Fac.10 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 10 night closure function. Default					
1316	Façade 10 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 10 timed closure function.(1= Night Closure function is active)					
1317	Fac.10 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit

No.	Text	Function	Flags	DPT type	Size
Write (activated = 1 or deactivated = 0) façade 10 Heat Protection function. Default					
1318	Façade 10 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 10 Heat Protection function.(1= Heat Protection function is active)					
1319	Fac.10 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 10 is (1 = activated or 0 = deactivated). Default					
1320	Façade 10 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 10 Pyranometer (Light intensity) threshold value.					
1321	Façade 10 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 10 Pyranometer (Light intensity) threshold value.					
1322	Façade 10 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 10 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1323	Façade 10 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 10 automation.					
1324	Fac.10 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 10 is (1 = activated or 0 = deactivated). Default					
1325	Fac.10 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 10 according to the internal Temperature in °C.					
1326	Fac.10 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.10 internal Temperature block threshold value.					
1327	Fac.10 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1328	Façade 10 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 10 internal temp blocking function.					

No.	Text	Function	Flags	DPT type	Size
1329	Fac.10 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 10 automation based on Sun (1 = active/ 0 = inactive). Default					
1330	Fac.10 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1331	Fac.10 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.10 Sun starting Azimuth angle value.					
1332	Fac.10 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.10 Sun Ending Azimuth angle in (°).					
1333	Fac.10 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.10 Sun ending Azimuth angle value.					
1334	Fac.10 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.10 Sun starting Elevation angle in (°).					
1335	Fac.10 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.10 Sun starting Elevation angle value.					
1336	Fac.10 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.10 Sun Ending Elevation angle in (°).					
1337	Fac.10 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.10 Sun ending Elevation angle value.					
1338	Fac.10 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 10 automation then the value is 1.					
1339	Fac.10 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.10 in Lux.					
1340	Fac.10 Sun auto. threshold value in Lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.10 threshold value.					

No.	Text	Function	Flags	DPT type	Size
1341	Fac.10 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.10 threshold value.					
1342	Fac.10 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1343	Fac.10 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1344	Façade 10 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
1345	Façade 10 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.10 extension delay value.					
1346	Façade 10 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1347	Façade 10 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.10 extension delay value.					
1348	Façade 10 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1349	Façade 10 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.10 retraction delay value.					
1350	Façade 10 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 10.					
1351	Fac.10 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 10.					
1352	Façade 10 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit

No.	Text	Function	Flags	DPT type	Size
Indicates if Fac.10 channel is activated or not.					
1353	Façade 10 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 10 (Safety, Wind extension block, ...)					
1354	Façade 10 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1355	Façade 10 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1356	Façade 10 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1357	Façade 10 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 10.					
1362	Façade 11 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 11.					
1363	Fac.11 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 11 can't be controlled. (Default)					
1364	Façade 11 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 11 in different weather conditions (is it depending Wind, Rain, Frost).					
1365	Façade 11 wind extension block (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 11 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1366	Façade 11 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.11 Wind threshold value.					
1367	Façade 11 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.11 Wind threshold value.					

No.	Text	Function	Flags	DPT type	Size
1368	Façade 11 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 11.					
1369	Façade 11 wind alarm (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 11 and can initiate an action.					
1370	Façade 11 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 11 Wind alarm threshold value.					
1371	Façade 11 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 11 Wind alarm threshold value.					
1372	Façade 11 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 11 (1=Wind value exceeded threshold 11), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1373	Façade 11 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 11, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1374	Fac.11 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 11 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
1375	Façade 11 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1376	Fac.11 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 11 timed opening function.					
1377	Façade 11 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 11 timed opening function.(1= Timed Opening function is active)					
1378	Fac.11 outside temp. Release/block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 11 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1379	Fac.11 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
It is a Reference Point of façade 11 used for setting or reading the Temperature block value in °C.					
1380	Fac.11 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 11.					
1381	Fac.11 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 11 external Temperature block function. (Active = 1 or inactive = 0)					
1382	Fac.11 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 11 timed closure function. Default					
1383	Façade 11 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 11 timed closure function.(1= Timed Closure function is active)					
1384	Fac.11 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 11 night closure function. Default					
1385	Façade 11 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 11 timed closure function.(1= Night Closure function is active)					
1386	Fac.11 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 11 Heat Protection function. Default					
1387	Façade 11 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 11 Heat Protection function.(1= Heat Protection function is active)					
1388	Fac.11 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 11 is (1 = activated or 0 = deactivated). Default					
1389	Façade 11 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 11 Pyranometer (Light intensity) threshold value.					
1390	Façade 11 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 11 Pyranometer (Light intensity) threshold value.					

No.	Text	Function	Flags	DPT type	Size
1391	Façade 11 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 11 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1392	Façade 11 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 11 automation.					
1393	Fac.11 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 11 is (1 = activated or 0 = deactivated). Default					
1394	Fac.11 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
Threshold value used to block the façade 11 according to the internal Temperature in °C.					
1395	Fac.11 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.11 internal Temperature block threshold value.					
1396	Fac.11 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1397	Façade 11 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 11 internal temp blocking function.					
1398	Fac.11 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 11 automation based on Sun (1 = active/ 0 = inactive). Default					
1399	Fac.11 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1400	Fac.11 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.11 Sun starting Azimuth angle value.					
1401	Fac.11 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.11 Sun Ending Azimuth angle in (°).					
1402	Fac.11 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.11 Sun ending Azimuth angle value.					
1403	Fac.11 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.11 Sun starting Elevation angle in (°).					
1404	Fac.11 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.11 Sun starting Elevation angle value.					
1405	Fac.11 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.11 Sun Ending Elevation angle in (°).					
1406	Fac.11 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.11 Sun ending Elevation angle value.					
1407	Fac.11 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 11 automation then the value is 1.					
1408	Fac.11 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.11 in Lux.					
1409	Fac.11 Sun auto. threshold value in Lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.11 threshold value.					
1410	Fac.11 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.11 threshold value.					
1411	Fac.11 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1412	Fac.11 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1413	Façade 11 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					

No.	Text	Function	Flags	DPT type	Size
1414	Façade 11 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.11 extension delay value.					
1415	Façade 11 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1416	Façade 11 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.11 extension delay value.					
1417	Façade 11 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1418	Façade 11 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.11 retraction delay value.					
1419	Façade 11 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 11.					
1420	Fac.11 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 11.					
1421	Façade 11 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.11 channel is activated or not.					
1422	Façade 11 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 11 (Safety, Wind extension block, ...)					
1423	Façade 11 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1424	Façade 11 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1425	Façade 11 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1426	Façade 11 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 11.					
1431	Façade 12 simulation (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Set this value of the (1 = activate / 0 = deactivate) simulation for façade 12.					
1432	Fac.12 block	Input	CRW-	[1.1] DPT_Switch	1 Bit
If activated = 1 the façade 12 can't be controlled. (Default)					
1433	Façade 12 safety (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the saftey function that ensure the protection and proper functioning of the façade 12 in different weather conditions (is it depending Wind, Rain, Frost).					
1434	Façade 12 wind extension block (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Is a safety feature used to protect the façade 12 from potential damage (prevent further extension of the façade) caused by high winds. (Remain in same position)					
1435	Façade 12 wind extension block threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Fac.12 Wind threshold value.					
1436	Façade 12 wind extension block threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.12 Wind threshold value.					
1437	Façade 12 wind extension block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind safety feature used with façade 12.					
1438	Façade 12 wind alarm (1: On | 0: Off)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Alarm triggered after the wind speed exceeds the threshold value 12 and can initiate an action.					
1439	Façade 12 wind alarm threshold value in m/s	Input	CRWT	[9.5] DPT_Value_Wsp	2 Bytes
Reference point of setting and/or reading the Façade 12 Wind alarm threshold value.					
1440	Façade 12 wind alarm threshold value (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Façade 12 Wind alarm threshold value.					

No.	Text	Function	Flags	DPT type	Size
1441	Façade 12 wind alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the wind alarm for façade 12 (1=Wind value exceeded threshold 12), Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1442	Façade 12 frost alarm status (1: On | 0: Off)	Output	CRWT	[1.1] DPT_Switch	1 Bit
Status of the Frost alarm for façade 12, Can also trigger an action. Is set high after 48 hrs of no outdoor measurment sent.					
1443	Fac.12 release/block rain automatic	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 12 rain automation function activation = 1 or Block = 0 when rain condition is true. (Default)					
1444	Façade 12 rain alarm status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Rain alarm (1= Rain detected)					
1445	Fac.12 release/block timed opening	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (Active = 1 or deactivated = 0) façade 12 timed opening function.					
1446	Façade 12 timed opening status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 12 timed opening function.(1= Timed Opening function is active)					
1447	Fac.12 outside temp. Release/block block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Façade 12 Blocking function based on when outdoor temp is below the threshold value. (Active = 1 or deactivated = 0)					
1448	Fac.12 outside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes
It is a Reference Point of façade 12 used for setting or reading the Temperature block value in °C.					
1449	Fac.12 outside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the external Temperature block threshold value for façade 12.					
1450	Fac.12 outside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 12 external Temperature block function. (Active = 1 or inactive = 0)					
1451	Fac.12 release/block timed closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 12 timed closure function. Default					

No.	Text	Function	Flags	DPT type	Size
1452	Façade 12 timed closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 12 timed closure function.(1= Timed Closure function is active)					
1453	Fac.12 release/block night closure	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 12 night closure function. Default					
1454	Façade 12 night closure status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 12 timed closure function.(1= Night Closure function is active)					
1455	Fac.12 release/block heat protection	Input	CRW-	[1.1] DPT_Switch	1 Bit
Write (activated = 1 or deactivated = 0) façade 12 Heat Protection function. Default					
1456	Façade 12 heating protection status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of façade 12 Heat Protection function.(1= Heat Protection function is active)					
1457	Fac.12 release/block pyranometer	Input	CRW-	[1.1] DPT_Switch	1 Bit
Pyranometer sensor input for façade 12 is (1 = activated or 0 = deactivated). Default					
1458	Façade 12 pyranometer in W/m²	Input/Output	CRWT	[9.22] DPT_PowerDensity	2 Bytes
Reference value used for setting or reading the Façade 12 Pyranometer (Light intensity) threshold value.					
1459	Façade 12 pyranometer in W/m² (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Façade 12 Pyranometer (Light intensity) threshold value.					
1460	Façade 12 pyranometer status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade 12 Pyranometer (Light intensity). (1: Light intensity value exceeded threshold).					
1461	Façade 12 internal temperature in °C	Input	-WCT	[9.1] DPT_Value_Temp	2 Bytes
Indoor input temperature value used for setting Façade 12 automation.					
1462	Fac.12 release/block inside temp. block	Input	CRW-	[1.1] DPT_Switch	1 Bit
Temperature sensor input for façade 12 is (1 = activated or 0 = deactivated). Default					
1463	Fac.12 inside temp. Block in °C	Input/Output	CRWT	[9.1] DPT_Value_Temp	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Threshold value used to block the façade 12 according to the internal Temperature in °C.					
1464	Fac.12 inside temp. Block in °C (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.12 internal Temperature block threshold value.					
1465	Fac.12 inside temp. Block status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Façade internal Temperature block. (1 = Blocking Function is active)					
1466	Façade 12 internal temperature block release/block via bit object	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 12 internal temp blocking function.					
1467	Fac.12 release/block sun auto.	Input	CRW-	[1.1] DPT_Switch	1 Bit
Send 1 to this obj to activate Façade 12 automation based on Sun (1 = active/ 0 = inactive). Default					
1468	Fac.12 Sun auto. Azimuth from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set the Sun starting Azimuth angle in (°).					
1469	Fac.12 Sun auto. Azimuth from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.12 Sun starting Azimuth angle value.					
1470	Fac.12 Sun auto. Azimuth up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.12 Sun Ending Azimuth angle in (°).					
1471	Fac.12 Sun auto. Azimuth up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.12 Sun ending Azimuth angle value.					
1472	Fac.12 Sun auto. Elevation from (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.12 Sun starting Elevation angle in (°).					
1473	Fac.12 Sun auto. Elevation from (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 Fac.12 Sun starting Elevation angle value.					
1474	Fac.12 Sun auto. Elevation up to (in °)	Input	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Used to set Fac.12 Sun Ending Elevation angle in (°).					
1475	Fac.12 Sun auto. Elevation up to (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to increment=1 or decrement=0 Fac.12 Sun ending Elevation angle value.					
1476	Fac.12 Sun auto. AziEle status (1: On | 0: Off)	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the Sun is within the set angle range according to façade 12 automation then the value is 1.					
1477	Fac.12 Sun auto. measurement in lux	Input	-WCT	[9.4] DPT_Value_Lux	2 Bytes
Brightness measured for Fac.12 in Lux.					
1478	Fac.12 Sun auto. threshold value in Lux	Input	CRWT	[9.4] DPT_Value_Lux	2 Bytes
Reference point of setting and/or reading the Sun Auto brightness Fac.12 threshold value.					
1479	Fac.12 Sun auto. threshold (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Sun Auto brightness Fac.12 threshold value.					
1480	Fac.12 Sun auto. Bright. Short status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than short delay setting value.					
1481	Fac.12 Sun auto. Bright. Long status (1: On)	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status is high when Brightness is above the Sun auto. Threshold, longer than Long delay setting value.					
1482	Façade 12 extension delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes
Value used for setting extension time in Minutes in which when brightness value is over thershold for more then this time it activates the façade 1 sun protection.					
1483	Façade 12 extension delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.12 extension delay value.					
1484	Façade 12 short delay in seconds	Input/Output	CRWT	[7.5] DPT_TimePeriodSec	2 Bytes
Reference point of setting extension time in Seconds in which when brightness value is over thershold for more then this time it activated the façade 1 sun protection.					
1485	Façade 12 short delay in seconds (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.12 extension delay value.					
1486	Façade 12 retraction delay in min.	Input/Output	CRWT	[7.6] DPT_TimePeriodMin	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Value used for setting retraction time in Seconds in which when brightness value is below thershold for more then this time it deactivated the façade 1 sun protection.					
1487	Façade 12 retraction delay in min. (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Fac.12 retraction delay value.					
1488	Façade 12 movement position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Movment position on the bus to control the actuators of the façade 12.					
1489	Fac.12 blind position	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Send the Slats position on the bus to control the actuators of the façade 12.					
1490	Façade 12 channel status output (1: On | 0: Off)	Input	CRW-	[1.1] DPT_Switch	1 Bit
Indicates if Fac.12 channel is activated or not.					
1491	Façade 12 channel state text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text of the condition of façade 12 (Safety, Wind extension block, ...)					
1492	Façade 12 channel status bit text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output about the reason behind the current condition.(Wind alarm, Rain alarm, ...)					
1493	Façade 12 channel status bit state	Output	CR-T	[1.1] DPT_Switch	1 Bit
Status of the Status bit state (1 = True or not = 0)					
1494	Façade 12 channel delay	Output	CR-T	[7.5] DPT_TimePeriodSec	2 Bytes
Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.					
1495	Façade 12 channel status bit selection (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Switch between the states of the automatic functions for façade 12.					
1530	Computer 1: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 1 (bit/byte/percentage/degree/...).					
1531	Computer 1: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 1 (bit/byte/percentage/degree/...).					

No.	Text	Function	Flags	DPT type	Size
1532	Computer 1: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 1 (bit/byte/percentage/degree/...).					
1533	Computer 1: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 1 (bit/byte/percentage/degree/...).					
1534	Computer 1: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 1 (bit/byte/percentage/degree/...).					
1535	Computer 1: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1536	Computer 1: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1537	Computer 1: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1533 & 1534.					
1538	Computer 2: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 2 (bit/byte/percentage/degree/...).					
1539	Computer 2: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 2 (bit/byte/percentage/degree/...).					
1540	Computer 2: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 2 (bit/byte/percentage/degree/...).					
1541	Computer 2: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 2 (bit/byte/percentage/degree/...).					
1542	Computer 2: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 2 (bit/byte/percentage/degree/...).					
1543	Computer 2: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes

No.	Text	Function	Flags	DPT type	Size
Text output for the condition: met(True)/not met(False).					
1544	Computer 2: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1545	Computer 2: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1541 & 1542.					
1546	Computer 3: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 3 (bit/byte/percentage/degree/...).					
1547	Computer 3: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 3 (bit/byte/percentage/degree/...).					
1548	Computer 3: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 3 (bit/byte/percentage/degree/...).					
1549	Computer 3: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 3 (bit/byte/percentage/degree/...).					
1550	Computer 3: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 3 (bit/byte/percentage/degree/...).					
1551	Computer 3: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1552	Computer 3: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1553	Computer 3: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1549 & 1550.					
1554	Computer 4: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 4 (bit/byte/percentage/degree/...).					

No.	Text	Function	Flags	DPT type	Size
1555	Computer 4: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 4 (bit/byte/percentage/degree/...).					
1556	Computer 4: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 4 (bit/byte/percentage/degree/...).					
1557	Computer 4: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 4 (bit/byte/percentage/degree/...).					
1558	Computer 4: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 4 (bit/byte/percentage/degree/...).					
1559	Computer 4: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1560	Computer 4: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1561	Computer 4: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1557 & 1558.					
1562	Computer 5: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 5 (bit/byte/percentage/degree/...).					
1563	Computer 5: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 5 (bit/byte/percentage/degree/...).					
1564	Computer 5: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 5 (bit/byte/percentage/degree/...).					
1565	Computer 5: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 5 (bit/byte/percentage/degree/...).					
1566	Computer 5: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 5 (bit/byte/percentage/degree/...).					

No.	Text	Function	Flags	DPT type	Size
1567	Computer 5: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1568	Computer 5: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1569	Computer 5: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1565 & 1566.					
1570	Computer 6: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 6 (bit/byte/percentage/degree/...).					
1571	Computer 6: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 6 (bit/byte/percentage/degree/...).					
1572	Computer 6: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 6 (bit/byte/percentage/degree/...).					
1573	Computer 6: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 6 (bit/byte/percentage/degree/...).					
1574	Computer 6: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 6 (bit/byte/percentage/degree/...).					
1575	Computer 6: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1576	Computer 6: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1577	Computer 6: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1533 & 1534.					

No.	Text	Function	Flags	DPT type	Size
1578	Computer 7: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 7 (bit/byte/percentage/degree/...).					
1579	Computer 7: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 7 (bit/byte/percentage/degree/...).					
1580	Computer 7: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 7 (bit/byte/percentage/degree/...).					
1581	Computer 7: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 7 (bit/byte/percentage/degree/...).					
1582	Computer 7: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 7 (bit/byte/percentage/degree/...).					
1583	Computer 7: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1584	Computer 7: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1585	Computer 7: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1581 & 1582.					
1586	Computer 8: Input I1	Input	CRWT	Depending on setting	4 Bytes
First Input for Computer 8 (bit/byte/percentage/degree/...).					
1587	Computer 8: Input I2	Input	CRWT	Depending on setting	4 Bytes
Second Input for Computer 8 (bit/byte/percentage/degree/...).					
1588	Computer 8: Input I3	Input	CRWT	Depending on setting	4 Bytes
Third Input for Computer 8 (bit/byte/percentage/degree/...).					
1589	Computer 8: Output O1	Output	CR-T	Depending on setting	4 Bytes
First Output for Computer 8 (bit/byte/percentage/degree/...).					

No.	Text	Function	Flags	DPT type	Size
1590	Computer 8: Output O2	Output	CR-T	Depending on setting	4 Bytes
Second Output for Computer 8 (bit/byte/percentage/degree/...).					
1591	Computer 8: Condition text	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Text output for the condition: met(True)/not met(False).					
1592	Computer 8: Monitoring status	Output	CR-T	[1.1] DPT_Switch	1 Bit
Indicates the current condition of the monitored inputs, If no value recieved for the inputs in the set time range, This status is True = 1 indicating an issue. Default					
1593	Computer 8: Block (1: Block)	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output Obj.No. 1589 & 1590.					
1600	Weekly timer period 1: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 1 should start for selected days. WTP (Weekly timer period)					
1601	Weekly timer period 1: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 1 should end for selected days.					
1602	Weekly timer period 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 1 is active & Value is Low(0) when WTP 1 is inactive .					
1603	Weekly timer period 1: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 1 Switching output, two preset values possible (0-255). Value If WTP 1 is active & Value If WTP 1 is Not-active.					
1604	Weekly timer period 2: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 2 should start for selected days. WTP (Weekly timer period)					
1605	Weekly timer period 2: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 2 should end for selected days.					
1606	Weekly timer period 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 2 is active & Value is Low(0) when WTP 2 is inactive .					

No.	Text	Function	Flags	DPT type	Size
1607	Weekly timer period 2: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 2 Switching output, two preset values possible (0-255). Value If WTP 2 is active & Value If WTP 2 is Not-active.					
1608	Weekly timer period 3: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 3 should start for selected days. WTP (Weekly timer period)					
1609	Weekly timer period 3: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 3 should end for selected days.					
1610	Weekly timer period 3: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 3 is active & Value is Low(0) when WTP 3 is inactive .					
1611	Weekly timer period 3: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 3 Switching output, two preset values possible (0-255). Value If WTP 3 is active & Value If WTP 3 is Not-active.					
1612	Weekly timer period 4: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 4 should start for selected days. WTP (Weekly timer period)					
1613	Weekly timer period 4: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 4 should end for selected days.					
1614	Weekly timer period 4: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 4 is active & Value is Low(0) when WTP 4 is inactive .					
1615	Weekly timer period 4: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 4 Switching output, two preset values possible (0-255). Value If WTP 4 is active & Value If WTP 4 is Not-active.					
1616	Weekly timer period 5: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 5 should start for selected days. WTP (Weekly timer period)					
1617	Weekly timer period 5: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 5 should end for selected days.					

No.	Text	Function	Flags	DPT type	Size
1618	Weekly timer period 5: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 5 is active & Value is Low(0) when WTP 5 is inactive .					
1619	Weekly timer period 5: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 5 Switching output, two preset values possible (0-255). Value If WTP 5 is active & Value If WTP 5 is Not-active.					
1620	Weekly timer period 6: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 6 should start for selected days. WTP (Weekly timer period)					
1621	Weekly timer period 6: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 6 should end for selected days.					
1622	Weekly timer period 6: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 6 is active & Value is Low(0) when WTP 6 is inactive .					
1623	Weekly timer period 6: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 6 Switching output, two preset values possible (0-255). Value If WTP 6 is active & Value If WTP 6 is Not-active.					
1624	Weekly timer period 7: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 7 should start for selected days. WTP (Weekly timer period)					
1625	Weekly timer period 7: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 7 should end for selected days.					
1626	Weekly timer period 7: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 7 is active & Value is Low(0) when WTP 7 is inactive .					
1627	Weekly timer period 7: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 7 Switching output, two preset values possible (0-255). Value If WTP 7 is active & Value If WTP 7 is Not-active.					
1628	Weekly timer period 8: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 8 should start for selected days. WTP (Weekly timer period)					

No.	Text	Function	Flags	DPT type	Size
1629	Weekly timer period 8: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 8 should end for selected days.					
1630	Weekly timer period 8: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 8 is active & Value is Low(0) when WTP 8 is inactive .					
1631	Weekly timer period 8: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 8 Switching output, two preset values possible (0-255). Value If WTP 8 is active & Value If WTP 8 is Not-active.					
1632	Weekly timer period 9: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 9 should start for selected days. WTP (Weekly timer period)					
1633	Weekly timer period 9: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 9 should end for selected days.					
1634	Weekly timer period 9: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 9 is active & Value is Low(0) when WTP 9 is inactive .					
1635	Weekly timer period 9: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 9 Switching output, two preset values possible (0-255). Value If WTP 9 is active & Value If WTP 9 is Not-active.					
1636	Weekly timer period 10: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 10 should start for selected days. WTP (Weekly timer period)					
1637	Weekly timer period 10: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 10 should end for selected days.					
1638	Weekly timer period 10: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 10 is active & Value is Low(0) when WTP 10 is inactive .					
1639	Weekly timer period 10: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 10 Switching output, two preset values possible (0-255). Value If WTP 10 is active & Value If WTP 10 is Not-active.					

No.	Text	Function	Flags	DPT type	Size
1640	Weekly timer period 11: Switch-on time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 11 should start for selected days. WTP (Weekly timer period)					
1641	Weekly timer period 11: Off time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 11 should end for selected days.					
1642	Weekly timer period 11: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 11 is active & Value is Low(0) when WTP 11 is inactive .					
1643	Weekly timer period 11: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 11 Switching output, two preset values possible (0-255). Value If WTP 11 is active & Value If WTP 11 is Not-active.					
1644	Weekly timer period 12: Switch-on time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 12 should start for selected days. WTP (Weekly timer period)					
1645	Weekly timer period 12: Off time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 12 should end for selected days.					
1646	Weekly timer period 12: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 12 is active & Value is Low(0) when WTP 12 is inactive .					
1647	Weekly timer period 12: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 12 Switching output, two preset values possible (0-255). Value If WTP 12 is active & Value If WTP 12 is Not-active.					
1648	Weekly timer period 13: Switch-on time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 13 should start for selected days. WTP (Weekly timer period)					
1649	Weekly timer period 13: Off time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 13 should end for selected days.					
1650	Weekly timer period 13: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 13 is active & Value is Low(0) when WTP 13 is inactive .					

No.	Text	Function	Flags	DPT type	Size
1651	Weekly timer period 13: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 13 Switching output, two preset values possible (0-255). Value If WTP 13 is active & Value If WTP 13 is Not-active.					
1652	Weekly timer period 14: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 14 should start for selected days. WTP (Weekly timer period)					
1653	Weekly timer period 14: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 14 should end for selected days.					
1654	Weekly timer period 14: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 14 is active & Value is Low(0) when WTP 14 is inactive .					
1655	Weekly timer period 14: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 14 Switching output, two preset values possible (0-255). Value If WTP 14 is active & Value If WTP 14 is Not-active.					
1656	Weekly timer period 15: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 15 should start for selected days. WTP (Weekly timer period)					
1657	Weekly timer period 15: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 15 should end for selected days.					
1658	Weekly timer period 15: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 15 is active & Value is Low(0) when WTP 15 is inactive .					
1659	Weekly timer period 15: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 15 Switching output, two preset values possible (0-255). Value If WTP 15 is active & Value If WTP 15 is Not-active.					
1660	Weekly timer period 16: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 16 should start for selected days. WTP (Weekly timer period)					
1661	Weekly timer period 16: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 16 should end for selected days.					

No.	Text	Function	Flags	DPT type	Size
1662	Weekly timer period 16: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 16 is active & Value is Low(0) when WTP 16 is inactive .					
1663	Weekly timer period 16: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 16 Switching output, two preset values possible (0-255). Value If WTP 16 is active & Value If WTP 16 is Not-active.					
1664	Weekly timer period 17: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 17 should start for selected days. WTP (Weekly timer period)					
1665	Weekly timer period 17: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 17 should end for selected days.					
1666	Weekly timer period 17: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 17 is active & Value is Low(0) when WTP 17 is inactive .					
1667	Weekly timer period 17: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 17 Switching output, two preset values possible (0-255). Value If WTP 17 is active & Value If WTP 17 is Not-active.					
1668	Weekly timer period 18: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 18 should start for selected days. WTP (Weekly timer period)					
1669	Weekly timer period 18: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 18 should end for selected days.					
1670	Weekly timer period 18: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 18 is active & Value is Low(0) when WTP 18 is inactive .					
1671	Weekly timer period 18: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 18 Switching output, two preset values possible (0-255). Value If WTP 18 is active & Value If WTP 18 is Not-active.					
1672	Weekly timer period 19: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 19 should start for selected days. WTP (Weekly timer period)					

No.	Text	Function	Flags	DPT type	Size
1673	Weekly timer period 19: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 19 should end for selected days.					
1674	Weekly timer period 19: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 19 is active & Value is Low(0) when WTP 19 is inactive .					
1675	Weekly timer period 19: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 19 Switching output, two preset values possible (0-255). Value If WTP 19 is active & Value If WTP 19 is Not-active.					
1676	Weekly timer period 20: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 20 should start for selected days. WTP (Weekly timer period)					
1677	Weekly timer period 20: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 20 should end for selected days.					
1678	Weekly timer period 20: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 20 is active & Value is Low(0) when WTP 20 is inactive .					
1679	Weekly timer period 20: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 20 Switching output, two preset values possible (0-255). Value If WTP 20 is active & Value If WTP 20 is Not-active.					
1680	Weekly timer period 21: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 21 should start for selected days. WTP (Weekly timer period)					
1681	Weekly timer period 21: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 21 should end for selected days.					
1682	Weekly timer period 21: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 21 is active & Value is Low(0) when WTP 21 is inactive .					
1683	Weekly timer period 21: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 21 Switching output, two preset values possible (0-255). Value If WTP 21 is active & Value If WTP 21 is Not-active.					

No.	Text	Function	Flags	DPT type	Size
1684	Weekly timer period 22: Switch-on time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 22 should start for selected days. WTP (Weekly timer period)					
1685	Weekly timer period 22: Off time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 22 should end for selected days.					
1686	Weekly timer period 22: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 22 is active & Value is Low(0) when WTP 22 is inactive .					
1687	Weekly timer period 22: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 22 Switching output, two preset values possible (0-255). Value If WTP 22 is active & Value If WTP 22 is Not-active.					
1688	Weekly timer period 23: Switch-on time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 23 should start for selected days. WTP (Weekly timer period)					
1689	Weekly timer period 23: Off time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 23 should end for selected days.					
1690	Weekly timer period 23: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 23 is active & Value is Low(0) when WTP 23 is inactive .					
1691	Weekly timer period 23: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 23 Switching output, two preset values possible (0-255). Value If WTP 23 is active & Value If WTP 23 is Not-active.					
1692	Weekly timer period 24: Switch-on time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 24 should start for selected days. WTP (Weekly timer period)					
1693	Weekly timer period 24: Off time	Input	CRWT	[10.1] DPT_-TimeOfDay	3 Bytes
Sets the specific time (hours and minutes) at which the WTP 24 should end for selected days.					
1694	Weekly timer period 24: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Value is High(1) when WTP 24 is active & Value is Low(0) when WTP 24 is inactive .					

No.	Text	Function	Flags	DPT type	Size
1695	Weekly timer period 24: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to WTP 24 Switching output, two preset values possible (0-255). Value If WTP 24 is active & Value If WTP 24 is Not-active.					
1720	Calendar timer period 1: Start date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The starting Month and Day of the CTP 1 . CTP (Calendar timer period)					
1721	Calendar timer period 1: End date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The ending Month and Day of the CTP 1.					
1722	Calendar timer period 1 sequence 1: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 1 Seq 1 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1723	Calendar timer period 1 sequence 1: Switch-Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 1 Seq 1 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1724	Calendar timer period 1 sequence 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 1 Seq 1 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1725	Calendar timer period 1 sequence 1: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 1 Seq 1 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 1 Seq 1 is active & Value If CTP 1 Seq 1 is Not-active.					
1726	Calendar timer period 1 sequence 2: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 1 Seq 2 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1727	Calendar timer period 1 sequence 2: Switch-Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 1 Seq 2 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1728	Calendar timer period 1 sequence 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 1 Seq 2 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1729	Calendar timer period 1 sequence 2: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 1 Seq 2 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 1 Seq 2 is active & Value If CTP 1 Seq 2 is Not-active.					

No.	Text	Function	Flags	DPT type	Size
1730	Calendar timer period 2: Start date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The starting Month and Day of the CTP 2 . CTP (Calendar timer period)					
1731	Calendar timer period 2: End date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The ending Month and Day of the CTP 2.					
1732	Calendar timer period 2 sequence 1: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 2 Seq 1 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1733	Calendar timer period 2 sequence 1: Switch-Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 2 Seq 1 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1734	Calendar timer period 2 sequence 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 2 Seq 1 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1735	Calendar timer period 2 sequence 1: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 2 Seq 1 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 2 Seq 1 is active & Value If CTP 2 Seq 1 is Not-active.					
1736	Calendar timer period 2 sequence 2: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 2 Seq 2 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1737	Calendar timer period 2 sequence 2: Switch-Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 2 Seq 2 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1738	Calendar timer period 2 sequence 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 2 Seq 2 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1739	Calendar timer period 2 sequence 2: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 2 Seq 2 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 2 Seq 2 is active & Value If CTP 2 Seq 2 is Not-active.					
1740	Calendar timer period 3: Start date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The starting Month and Day of the CTP 3 . CTP (Calendar timer period)					

No.	Text	Function	Flags	DPT type	Size
1741	Calendar timer period 3: End date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The ending Month and Day of the CTP 3.					
1742	Calendar timer period 3 sequence 1: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 3 Seq 1 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1743	Calendar timer period 3 sequence 1: Switch-Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 3 Seq 1 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1744	Calendar timer period 3 sequence 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 3 Seq 1 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1745	Calendar timer period 3 sequence 1: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 3 Seq 1 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 3 Seq 1 is active & Value If CTP 3 Seq 1 is Not-active.					
1746	Calendar timer period 3 sequence 2: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 3 Seq 2 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1747	Calendar timer period 3 sequence 2: Switch-Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 3 Seq 2 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1748	Calendar timer period 3 sequence 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 3 Seq 2 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1749	Calendar timer period 3 sequence 2: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 3 Seq 2 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 3 Seq 2 is active & Value If CTP 3 Seq 2 is Not-active.					
1750	Calendar timer period 4: Start date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The starting Month and Day of the CTP 4 . CTP (Calendar timer period)					
1751	Calendar timer period 4: End date	Input	CRWT	[11.1] DPT_Date	3 Bytes
The ending Month and Day of the CTP 4.					

No.	Text	Function	Flags	DPT type	Size
1752	Calendar timer period 4 sequence 1: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 4 Seq 1 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1753	Calendar timer period 4 sequence 1: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 4 Seq 1 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1754	Calendar timer period 4 sequence 1: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 4 Seq 1 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1755	Calendar timer period 4 sequence 1: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 4 Seq 1 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 4 Seq 1 is active & Value If CTP 4 Seq 1 is Not-active.					
1756	Calendar timer period 4 sequence 2: Switch-on time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 4 Seq 2 Switch On Time: Hours: 0 to 23 / Minutes: 0 to 59.					
1757	Calendar timer period 4 sequence 2: Off time	Input	CRWT	[10.1] DPT_TimeOfDay	3 Bytes
CTP 4 Seq 2 Switch Off Time : Hours: 0 to 23 / Minutes: 0 to 59.					
1758	Calendar timer period 4 sequence 2: Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
If the CTP 4 Seq 2 is active and the current time falls within the defined time range, the output is high (1); If the period is not active or the current time is outside the defined time range, the output is low (0).					
1759	Calendar timer period 4 sequence 2: 8-bit output	Output	CR-T	[5.10] DPT_Value_1_Ucount	1 Byte
According to CTP 4 Seq 2 Switching output, two preset values in the parameters are possible (0-255). Value If CTP 4 Seq 2 is active & Value If CTP 4 Seq 2 is Not-active.					
1780	Logic input 1	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 1 of type bit to be used in logical funtions.					
1781	Logic input 2	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 2 of type bit to be used in logical funtions.					
1782	Logic input 3	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 3 of type bit to be used in logical funtions.					
1783	Logic input 4	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 4 of type bit to be used in logical funtions.					

No.	Text	Function	Flags	DPT type	Size
1784	Logic input 5	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 5 of type bit to be used in logical funtions.					
1785	Logic input 6	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 6 of type bit to be used in logical funtions.					
1786	Logic input 7	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 7 of type bit to be used in logical funtions.					
1787	Logic input 8	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 8 of type bit to be used in logical funtions.					
1788	Logic input 9	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 9 of type bit to be used in logical funtions.					
1789	Logic input 10	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 10 of type bit to be used in logical funtions.					
1790	Logic input 11	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 11 of type bit to be used in logical funtions.					
1791	Logic input 12	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 12 of type bit to be used in logical funtions.					
1792	Logic input 13	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 13 of type bit to be used in logical funtions.					
1793	Logic input 14	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 14 of type bit to be used in logical funtions.					
1794	Logic input 15	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 15 of type bit to be used in logical funtions.					
1795	Logic input 16	Input	C-W-	[1.2] DPT_Bool	1 Bit
Logical input 16 of type bit to be used in logical funtions.					
1800	AND logic 1: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 1 according to 4 available inputs.					
1801	AND logic 1: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 1 (1Byte Value set in the parameters)					
1802	AND logic 1: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte

No.	Text	Function	Flags	DPT type	Size
Output B of And Logic 1 (1Byte Value set in the parameters)					
1803	AND logic 1: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 1 (1 = block & 0 = released). Default					
1804 +1314:1314130 2:1317G130113 02:131213 0130 2:1329	AND logic 2: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 2 according to 4 available inputs.					
1805	AND logic 2: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 2 (1Byte Value set in the parameters)					
1806	AND logic 2: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 2 (1Byte Value set in the parameters)					
1807	AND logic 2: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 2 (1 = block & 0 = released). Default					
1808	AND logic 3: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 3 according to 4 available inputs.					
1809	AND logic 3: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 3 (1Byte Value set in the parameters)					
1810	AND logic 3: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 3 (1Byte Value set in the parameters)					
1811	AND logic 3: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 3 (1 = block & 0 = released). Default					
1812	AND logic 4: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit

No.	Text	Function	Flags	DPT type	Size
Output of And Logic 4 according to 4 available inputs.					
1813	AND logic 4: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 4 (1Byte Value set in the parameters)					
1814	AND logic 4: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 4 (1Byte Value set in the parameters)					
1815	AND logic 4: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 4 (1 = block & 0 = released). Default					
1816	AND logic 5: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 5 according to 4 available inputs.					
1817	AND logic 5: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 5 (1Byte Value set in the parameters)					
1818	AND logic 5: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 5 (1Byte Value set in the parameters)					
1819	AND logic 5: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 5 (1 = block & 0 = released). Default					
1820	AND logic 6: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 6 according to 4 available inputs.					
1821	AND logic 6: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 6 (1Byte Value set in the parameters)					
1822	AND logic 6: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 6 (1Byte Value set in the parameters)					
1823	AND logic 6: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 6 (1 = block & 0 = released). Default					
1824	AND logic 7: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 7 according to 4 available inputs.					

No.	Text	Function	Flags	DPT type	Size
1825	AND logic 7: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 7 (1Byte Value set in the parameters)					
1826	AND logic 7: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 7 (1Byte Value set in the parameters)					
1827	AND logic 7: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 7 (1 = block & 0 = released). Default					
1828	AND logic 8: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of And Logic 8 according to 4 available inputs.					
1829	AND logic 8: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of And Logic 8 (1Byte Value set in the parameters)					
1830	AND logic 8: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output B of And Logic 8 (1Byte Value set in the parameters)					
1831	AND logic 8: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of And Logic 8 (1 = block & 0 = released). Default					
1832	OR logic 1: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 1 according to 4 available inputs.					
1833	OR logic 1: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 1 (1Byte Value set in the parameters)					
1834	OR logic 1: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 1 (1Byte Value set in the parameters)					
1835	OR logic 1: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 1 (1 = block & 0 = released). Default					
1836	OR logic 2: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 2 according to 4 available inputs.					
1837	OR logic 2: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 2 (1Byte Value set in the parameters)					

No.	Text	Function	Flags	DPT type	Size
1838	OR logic 2: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 2 (1Byte Value set in the parameters)					
1839	OR logic 2: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 2 (1 = block & 0 = released). Default					
1840	OR logic 3: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 3 according to 4 available inputs.					
1841	OR logic 3: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 3 (1Byte Value set in the parameters)					
1842	OR logic 3: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 3 (1Byte Value set in the parameters)					
1843	OR logic 3: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 3 (1 = block & 0 = released). Default					
1844	OR logic 4: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 4 according to 4 available inputs.					
1845	OR logic 4: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 4 (1Byte Value set in the parameters)					
1846	OR logic 4: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 4 (1Byte Value set in the parameters)					
1847	OR logic 4: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 4 (1 = block & 0 = released). Default					
1848	OR logic 5: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 5 according to 4 available inputs.					
1849	OR logic 5: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 5 (1Byte Value set in the parameters)					
1850	OR logic 5: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 5 (1Byte Value set in the parameters)					

No.	Text	Function	Flags	DPT type	Size
1851	OR logic 5: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 5 (1 = block & 0 = released). Default					
1852	OR logic 6: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 6 according to 4 available inputs.					
1853	OR logic 6: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 6 (1Byte Value set in the parameters)					
1854	OR logic 6: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 6 (1Byte Value set in the parameters)					
1855	OR logic 6: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 6 (1 = block & 0 = released). Default					
1856	OR logic 7: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 7 according to 4 available inputs.					
1857	OR logic 7: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 7 (1Byte Value set in the parameters)					
1858	OR logic 7: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 7 (1Byte Value set in the parameters)					
1859	OR logic 7: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 7 (1 = block & 0 = released). Default					
1860	OR logic 8: 1-bit switching output	Output	CR-T	[1.2] DPT_Bool	1 Bit
Output of OR Logic 8 according to 4 available inputs.					
1861	OR logic 8: 8-bit output A	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 8 (1Byte Value set in the parameters)					
1862	OR logic 8: 8-bit output B	Output	CR-T	[5.1] DPT_Scaling	1 Byte
Output A of OR Logic 8 (1Byte Value set in the parameters)					
1863	OR logic 8: Block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to block the output of OR Logic 8 (1 = block & 0 = released). Default					

No.	Text	Function	Flags	DPT type	Size
1889	Wind direction: Measurement [°]	Output	CR-T	[14.7] DPT_Value_AngleDeg	4 Bytes
Wind direction measured value sent on the bus in Degrees (4 byte object - default).					
1890	Wind direction: Measurement [compass direction]	Output	CR-T	[16.0] DPT_String_ASCII	14 Bytes
Wind direction sent as text (9 cases).					
1891	Wind direction measurement [°]	Output	CR-T	[5.3] DPT_Angle	1 Byte
Wind direction measured value sent on the bus in Degrees (1 byte object).					
1892	Wind direction north	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''North'', The Output is 1. The Output is 1.					
1893	Wind direction North-East	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''North-East'', The Output is 1.					
1894	Wind direction east	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''East'', The Output is 1.					
1895	Wind direction South-East	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''South-East'', The Output is 1.					
1896	Wind direction south	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''South'', The Output is 1.					
1897	Wind direction South-West	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''South-West'', The Output is 1.					
1898	Wind direction west	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''West'', The Output is 1.					
1899	Wind direction North-West	Output	CR-T	[1.2] DPT_Bool	1 Bit
If the wind direction is ''North-West'', The Output is 1.					
1904	Wind direction: Range 1 Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is in the set range (considering the time delays). Wind direction range 1 (On = 1 ; Off = 0)					
1905	Wind direction range value 1: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1904 changes from 0 to 1.					
1906	Wind direction range value 1: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes

No.	Text	Function	Flags	DPT type	Size
Time period that should be exceeded before Obj.No. 1904 changes from 1 to 0.					
1907	Wind direction range value 1 from: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range 1 ''From'' value 1, 1bit value.					
1908	Wind direction range value 1 up to: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range ''Up to'' value 1, 1bit value					
1909	Wind direction range value 1 from: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 1 ''From'' value 1 (degrees °).					
1910	Wind direction range value 1 up to: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 1 ''Up to'' value 1 (degrees °).					
1911	Wind direction range value 1: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output (Obj.No. 1904) based on Wind direction range 1.					
1914	Wind direction: Range 2 Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is in the set range (considering the time delays). Wind direction range 2 (On = 1 ; Off = 0)					
1915	Wind direction range value 2: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1914 changes from 0 to 1.					
1916	Wind direction range value 2: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1914 changes from 1 to 0.					
1917	Wind direction range value 2 from: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range 2 ''From'' value 1, 1bit value.					
1918	Wind direction range value 2 up to: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range ''Up to'' value 1, 1bit value					
1919	Wind direction range value 2 from: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes

No.	Text	Function	Flags	DPT type	Size
Reference point of setting and/or reading the Wind direction range 2 ''From'' value 1 (degrees °).					
1920	Wind direction range value 2 up to: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 2 ''Up to'' value 1 (degrees °).					
1921	Wind direction range value 2: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output (Obj.No. 1914) based on Wind direction range 2.					
1924	Wind direction: Range 3 Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit
Used to trigger actions if the measured value is in the set range (considering the time delays). Wind direction range 3 (On = 1 ; Off = 0)					
1925	Wind direction range value 3: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1924 changes from 0 to 1.					
1926	Wind direction range value 3: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1924 changes from 1 to 0.					
1927	Wind direction range value 3 from: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range 3 ''From'' value 1, 1bit value.					
1928	Wind direction range value 3 up to: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range ''Up to'' value 1, 1bit value					
1929	Wind direction range value 3 from: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 3 ''From'' value 1 (degrees °).					
1930	Wind direction range value 3 up to: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 3 ''Up to'' value 1 (degrees °).					
1931	Wind direction range value 3: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output (Obj.No. 1924) based on Wind direction range 3.					
1934	Wind direction: Range 4 Switching output	Output	CR-T	[1.1] DPT_Switch	1 Bit

No.	Text	Function	Flags	DPT type	Size
Used to trigger actions if the measured value is in the set range (considering the time delays). Wind direction range 4 (On = 1 ; Off = 0)					
1935	Wind direction range value 4: Delay from 0 to 1	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1934 changes from 0 to 1.					
1936	Wind direction range value 4: Delay from 1 to 0	Input	C-W-	[7.5] DPT_TimePeriodSec	2 Bytes
Time period that should be exceeded before Obj.No. 1934 changes from 1 to 0.					
1937	Wind direction range value 4 from: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range 4 ''From'' value 1, 1bit value.					
1938	Wind direction range value 4 up to: (1:+ | 0:-)	Input	C-W-	[1.7] DPT_Step	1 Bit
Used to increment=1 or decrement=0 the Wind direction range ''Up to'' value 1, 1bit value					
1939	Wind direction range value 4 from: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 4 ''From'' value 1 (degrees °).					
1940	Wind direction range value 4 up to: Absolute value	Input / Output	CRWT	[14.7] DPT_Value_AngleDeg	4 Bytes
Reference point of setting and/or reading the Wind direction range 4 ''Up to'' value 1 (degrees °).					
1941	Wind direction range value 4: Switching output block	Input	C-W-	[1.1] DPT_Switch	1 Bit
Used to receive a binary state block = 1 or allow = 0 the switching of an output (Obj.No. 1934) based on Wind direction range 4.					

5. Parameter setting

5.0.1. Behaviour on power failure/power restoration

Behaviour on bus or auxiliary power failure

The device sends nothing.

Behaviour on bus or auxiliary voltage restoration and following programming or reset

The device sends all measurement values as well as switching and status outputs according to their send pattern set in the parameters with the delays established in the

"General settings" parameter block. The "Software version" communications object is sent once after 5 seconds.

5.0.2. Storage of threshold values

For threshold values that are specified via a communication object, a starting value must be entered for the first commissioning. It is valid until the first communication of a new threshold value.

After this, a threshold value once set per parameter or via a communication object is retained until a new threshold value is sent via a communication object. The last threshold value set by communication object is saved in the device, so that it is retained during a power outage and is available once again when power is restored.

5.0.3. Malfunction objects

Malfunction objects are sent after every reset and, additionally, after changes (i.e. at the beginning and end of a malfunction).

5.0.4. General settings

Set basic characteristics of data transfer. A different transmission delay prevents an overload of the bus shortly after the reset.

Transmission delay after reset/restoration of bus for:	
Measured values	5 ... 300 seconds
Threshold values and switching outputs	5 ... 300 seconds
Façade objects	5 ... 300 seconds
Computer objects	5 ... 300 seconds
time switch objects	5 ... 300 seconds
Logic objects	5 ... 300 seconds
Maximum telegram quota	1 • 2 • 5 • 10 • 20 • 50 Telegrams per sec.

5.0.5. GPS

Set whether the time and date are to be sent as separate objects or as one common object. Specify whether the time and date are to be set by the GPS signal or objects.

If time and date are **set by the GPS-Signal**, the data is available as soon as a valid GPS signal is received.

If time and date are **set by two objects**, then only a maximum of 10 seconds may elapse between receiving the date and receiving the time Furthermore, a change of date may not occur between receiving both objects. The objects must be received by the device on the same day.

The device has an integrated real-time clock. Therefore, time keeps on running internally and can be sent to the bus, even when no GPS coverage is available or no time

object has been received for some time. The internal clock can show a time drift of up to ±6 seconds per day.

Object type date and time	• two separate objects • a common object
Date and time will be set by	• GPS signal and not sent • GPS signal and sent periodically • GPS signal and sent on request • GPS signal and sent on request + periodically • object(s) and not sent
Send cycle *(if sent periodically)*	5 s ... 2 h; 1 min

Set what happens in the event of a GPS malfunction. Please note, that after return of auxiliary voltage, it can take up to 10 minutes before the GPS signal is received.

If there is no reception, GPS fault is ... recognised after the last reception	20 min • 30 min • 1 h • 1.5 h • 2 h
GPS fault object sends (1: malfunction| 0: no malfunction)	• never • on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s

5.1. Location

The location data is required in order to be able to calculate the **position of the sun** with the help of the date and time.

The **location** is received via GPS or entered manually (selection of the nearest town or by entering coordinates). Also when using the GPS signal coordinates can be entered manually for the initial commissioning. This data is used as long as no GPS reception exists. For this you select the option "Input (only valid until the first GPS reception)".

Location is determined by	• input • input (only valid until the first GPS reception) • GPS reception
Location input using *(if input selected)*	• Town • Coordinates

Country *(if input by town is selected)*	• Belgium • Denmark • Germany • France • Great Britain • Italy	• Liechtenstein • Luxembourg • Netherlands • Austria • Switzerland • USA
Town *(if input by town is selected)*	6 towns in Belgium 1 town in Denmark 48 towns in Germany; Stuttgart 23 towns in France 4 towns in Great Britain 10 towns in Italy 1 town in Liechtenstein 1 town in Luxembourg 2 towns in the Netherlands 4 towns in Austria 4 towns in Switzerland 2 towns in the USA	
Degree of longitude [west -180...+180 east] *(if input by coordinates is selected)*	9	
Minute of longitude [west -59...+59 east] *(if input by coordinates is selected)*	10	
Degree of latitude [south -90...+90 north] *(if input by coordinates is selected)*	48	
Minute of latitude [south -59...+59 north] *(if input by coordinates is selected)*	46	

The location-**height** above sea level is used to calculate the normal air pressure (see also chapter *Information on air pressure*, page 162).

The height is received per GPS or entered manually. When using the GPS signal a height can be entered manually for the initial commissioning. This data is used as long as no GPS reception exists. For this you select the option "Input (only valid until the first GPS reception)".

Height is determined by	• Input • Input (only valid until the first GPS reception) • GPS reception
Height above sea level in metres	-1000 ... 10000; 200

In order to be able to output the **local time**, the time zone (difference to world time (Coordinated Universal Time)) and the summer time rules must be defined. Specify the hours and minutes after winter time (standard time).

Time zone (relative to GMT):	
Prefix	• positive (+) • negative (-)

Hours	0 ... 13; 1
Minutes	0 ... 59; 0
Summertime rule	• Europe • USA • user-defined • none
All the following times are to be entered as winter time = standard time	
Start of Summer Time:	
on	• Monday ... Sunday • Date
From (day) *(for Europe or USA summer time rules)* (Day) *(For user defined summer time rules)*	1 ... 31; 25
(Month)	1 ... 12; 3
(Hour)	0 ... 23; 2
(minutes)	0 ... 59
End of Summer Time:	
on	• Monday ... Sunday • Date
From (day) *(for Europe or USA summer time rules)* (Day) *(For user defined summer time rules)*	1 ... 31; 25
(Month)	1 ... 12; 10
(hour)	0 ... 23; 2
(minutes)	0 ... 59
Time shift:	
hours	-12 ... 12; 1
minutes	0 ... 59

The standard coordinates can be transmitted from the device to the bus and thus be used in other applications, no matter whether they have been received via GPS or specified manually.

Send coordinates	• never • periodically • on change • on change and periodically
on change of	0.5° • 1° • 2° • 5° • 10°
Send cycle	5 s ... 2 h; 5 min

5.2. Rain

Activate the rain sensor in order to use objects and switch outputs.

Use rain sensor	No • **Yes**

Set, in which cases delay times received are to be kept per object. The parameter is only taken into consideration if the setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
delays received via communication objects	• never • after power restoration • after power restoration and programming

Select whether the special rain output is to be used with fixed switching delay. This switching output has no delay on rain recognition and 5 minutes delay after it is dry again.

Use rain output with fixed switching delay	No • Yes

Set the delay times. If the delays are defined using objects, then the times set here are only valid up to the first call.

Delays can be set via objects (in seconds)	No • Yes
Delay on rain	none • 1 s ... • 2 h
Delay on no rain (after drying of the sensor)	5 min • 1 h... • 2 h

Define the send pattern for the rain switch output and specify the object value for the event of rain.

Switching output sends	• on change • on change to rain • on change to no rain • on change and periodically • on change to rain and periodically • on change to no rain and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s
Object value(s) with rain	0 • 1

5.3. Temperature measurement value

First of all set whether the temperature sensor malfunction object is to be used and correct, if necessary, the output of the measurement value by specifying an offset (e.g. in order to compensate malfunction sources).

Use malfunction object	No • Yes
Offset in 0.1°C	-50… 50; 0

Then set the mixed value calculation if desired.

Use external reading	No • Yes
Ext. Reading proportion of the total reading *(if external reading is to be used)*	5% • 10% • 15% • ... • 50% • ... • 95% • 100%
All following settings refer to the total measured value	

Specify the send pattern for the total measured value.

Send pattern	• never • periodically • on change • on change and periodically
on change of *(if sent on change)*	0.1°C • 0.2°C • 0.5°C • 1.0°C • 2.0°C • 5.0°C
Send cycle *(if sent periodically)*	5 s … 2 h; 10 s

Select whether the minimum and maximum value should be used.

Use minimum and maximum value	No • Yes

Define the transmission behavior for the felt temperature.

Transmission behaviour for felt temperature (wind chill and heat index) (Wind chill considers wind strength at < 10 °C) (Heat index considers humidity at > 20 °C)	• not • periodically • on change • on change and periodically

5.4. Temperature threshold values

Activate the temperature threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

Threshold value 1	No • Yes
Threshold value...	No • Yes
Threshold value 4	No • Yes

5.4.1. Temperature threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
threshold values and delays received via communication objects	• never • after power supply restoration • after power supply restoration and programming

Select whether the threshold value is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • Communications object

When the **threshold value per parameter** is specified, then the value is set.

Threshold value in 0.1°C	-300 ... 800; 200

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set. From the 1st communication onwards, the threshold value corresponds to the value of the communication object and is not multiplied by the factor 0.1.

Start threshold value in 0.1°C valid until first call	-300 ... 800; 200
Object value limit (min) in 0.1°C	-300 ... 800
Object value limit (max) in 0.1°C	-300 ... 800
Type of threshold change	Absolute value • Increase/decrease
Step size *(upon increase/decrease change)*	0.1°C • 0.2°C • 0.3°C • 0.4°C • 0.5°C • 1°C • 2°C • 3°C • 4°C • 5°C

With both of the methods for specifying the threshold values the switching distance (hysteresis) is set.

Switching distance setting	in % • absolute
Switching distance in % of the threshold value *(for setting in %)*	0 ... 50; 20
Switching distance in 0.1°C *(for absolute setting)*	0 ... 1100; 50

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Delay from 0 to 1	none • 1 s ... 2 h
Delay from 1 to 0	none • 1 s ... 2 h
Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(if sent periodically)*	5 s ... 2 h

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• Do not send message • send 0 • send 1
Action upon release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	do not send message • Status object/s send/s
Switching output sends on change to 1	do not send message • If switching output = 1 ➔ send 1
Switching output sends on change to 0	do not send message •
	If switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status

Switching output sends on change to 1 and periodically	If switching output = 1 ➔send 1
Switching output sends on change to 0 and periodically	If switching output = 0 ➔send 0

5.5. Frost alarm

If necessary, activate the parameter frost alarm. The parameter is independent of the frost alarm used for the façade controller. The internal façade frost alarm is set separately (see F*açade setting* > *Frostalarm*, page 82)

Use frost alarm	No • **Yes**

Set which conditions are valid for the frost alarm. The frost alarm is active in cold outdoor temperatures in combination with precipitation.

Start frost alarm when	
an external temperature of (in 0.1 °C) is not reached.	-50 ... 40; 20
during or until (in hours) after precipitation.	1 ... 10; 5
End frost alarm when	
an external temperature of (in 0.1 °C)	30 ... 100; 50
for more than (in hours) is exceeded.	1 ... 10; 5

Define the send pattern and the object value.

Send pattern	• on change • on change to frost • on change to no frost • on change and periodically • on change to frost and periodically • on change to no frost and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 1 min
Object value with frost	0 • 1

5.6. Humidity measurement

Select, whether a **malfunction object** is to be sent if the sensor is faulty.

Use malfunction object	No • Yes

Use **Offsets** to adjust the readings to be sent.

Offset in 0,1°C	-100...100; 0

The unit can calculate a **mixed value** from its own reading and an external value. Set the mixed value calculation if desired. If an external portion is used, all of the following settings (threshold values, etc.) are related to the overall reading.

Use external measured value	No • Yes
Ext. Reading proportion of the total reading	5% • 10% • ... • 50% • ... • 100%
All of the following settings are referred to the total value.	
Send internal and total reading	• never • periodically • on change • on change and periodically
At and above change of *(if sent on change)*	0.1% RH • 0.2% RH • 0.5% RH • 1.0% RH • ... • 25% RH
Send cycle *(if sent periodically)*	5 s • 10 s • ... • 2 h

The **minimum and maximum readings** can be saved and sent to the bus. Use the „Reset humidity min/max value“ object to reset the values to the current readings. The values are not retained after a reset.

Use minimum and maximum value	No • Yes

5.7. Humidity threshold values

Activate the required air humidity threshold values. The menus for setting the threshold values are displayed.

Use threshold value 1/2/3/4	Yes • No

5.7.1. Threshold value 1, 2, 3, 4

Threshold value

Set, in which cases **threshold values and delay times** received via objects are to be retained. The parameter is only taken into consideration if the setting via object is activated below. Please note that the setting "After power supply restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first communication (setting via objects is ignored).

Threshold values and delays shall be maintained	• never • after power supply restoration • after power supply restoration and programming

Set the threshold value directly in the application program using parameters, or define them via the bus using a communication object.

Threshold value setting using parameter:

Set the threshold values and switching distance (hysteresis) directly.

Threshold value setting using	**Parameter** • Communication objects
Threshold value in 0.1% RH (*valid until 1st communication)*	0 ... 1000; 650

Threshold value setting using a communication object:

Define, how the threshold value is to be received from the bus. Basically, a new value can be received, or simply a command to increase or decrease.
During initial commissioning, a threshold value must be defined, which will be valid until the first communication with a new threshold value. For units which have already been taken into service, the last communicated threshold value can be used. Basically, a humidity range is specified in which the threshold value can be changed (object value limit).
From the 1st communication onwards, the threshold value corresponds to the value of the communication object and is not multiplied by the factor 0.1.

A set threshold value will be retained until a new value or a change is transferred. The current value is saved, so that it is retained in the event of a power supply failure and will be available once the power supply is restored.

Threshold value setting using	Parameter • **Communication objects**
Starting threshold value in 0.1% RH valid until first communication	0 ... 1000; 650
Object value limit (min.) in 0.1%RH	0...1000
Object value limit (max.) in 0.1%RH	0...1000
Type of threshold value change	Absolute value • Increase/Decrease
Increment *(upon increase/decrease change)*	0,10% • 0,20% • 0,50% • 1,00% • 2,00% • 5,00% • 10,00% • 20,00%

Set the **switching distance** independent of the type of threshold value specification.

Switching distance setting	in % • absolute
Switching distance of the threshold value in % (relative to the threshold value)	0 ... 50; 20
Switching distance in 0.1% RH *(*relative to the threshold value*)*	0 ... 1000; 100

Switching output

Set the behaviour of the switching output when a threshold value is exceeded/undercut. The output switching delay can be set using objects or directly as a parameter.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Switching delay from 0 to 1 *(If delay can be set via objects: valid until 1st communication)*	None • 1 s • 2 s • 5 s • 10 s • ... • 2 h
Switching delay from 1 to 0 *(If delay can be set via objects: valid until 1st communication)*	None • 1 s • 2 s • 5 s • 10 s • ... • 2 h
Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(is only sent if periodically is selected)*	5 s • 10 s • 30 s... • 2 h

Block

The switching output can be blocked using an object.

Use switching output block	No • Yes

If the block is activated, define specifications here for the behaviour of the output when blocked.

Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first communication	0 • 1
Behaviour of the switching output	
On block	• Do not send message • send 0 • send 1
On release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	• Do not send message • Send switching output status
Switching output sends on change to 1	• Do not send message • if switching output = 1 ➔ send 1

Switching output sends on change to 0	• Do not send message • if switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status
Switching output sends on change to 1 and periodically	if switching output = 1 ➔ send 1
Switching output sends on change to 0 and periodically	if switching output = 0 ➔ send 0

5.8. Dewpoint measurement

The **Weather Station Suntracer KNX pro** calculates the dewpoint temperature and can output the value to the bus.

Sending pattern	• never • periodically • on change • on change and periodically
At and above change of *(if sent on change)*	0,1°C • 0,2°C • 0,5°C • 1,0°C • 2,0°C • 5,0°C
Send cycle *(if sent periodically)*	5 s • 10 s • 30 s • 1 min • ... • 2 h

Activate the monitoring of the coolant temperature if required. The menus for setting the monitoring are displayed.

Use monitoring of the coolant temperature	No • Yes

5.8.1. Cooling medium temp. monitoring

A threshold value can be set for the temperature of the coolant, which is based on the current dewpoint temperature (offset/deviation). The switching output of the coolant temperature monitoring system can provide a warning prior to any build-up of condensation in the system, and/or activate appropriate countermeasures.

Threshold value

Threshold value = dewpoint temperature + offset

Set, in which cases **offset** received via object is to be retained. Please note that the setting "After power supply restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first communication (setting via objects is ignored).

The offset communicated last shall be maintained	• never • after power supply restoration • after power supply restoration and programming

During initial commissioning, an **offset** must be defined which is valid until the first communication of a new offset. For units which have already been taken into service, the last communicated offset can be used.

A set offset will be retained until a new value or a change is transferred. The current value is saved, so that it is retained in the event of a power supply failure and will be available once the power supply is restored.

Start offset in °C valid until first communication	0...200; 30
Increment for offset change via communication object	0,1°C • 0,2°C • 0,3°C • 0,4°C • 0,5°C • 1°C • 2°C • 3°C • 4°C • 5°C
Switching distance of the threshold value in % *(for setting in %)*	0 ... 50; 20
Switching distance of the threshold value in 0.1°C *(for absolute setting)*	0 ... 1000; 50
Threshold value sends	• never • periodically • on change • on change and periodically
At and above change of *(if sent on change)*	0.1°C • 0.2°C • 0.5°C • 1.0°C • 2.0°C • 5.0°C
Send cycle *(if sent periodically)*	5 s • 10 s • 30 s • 1 min • ... • 2 h

Switching output

The output switching delay can be set using objects or directly as a parameter.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Switching delay from 0 to 1 *for setting via objects:* *valid until 1st communication*	None • 1 s • 2 s • 5 s • 10 s • ... • 2 h
Switching delay from 1 to 0 *for setting via objects:* *valid until 1st communication*	None • 1 s • 2 s • 5 s • 10 s • ... • 2 h

Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Send cycle *(is only sent if periodically is selected)*	5 s • 10 s • 30 s... • 2 h

Blocking

The switching output can be blocked using an object. Define specifications here for the behaviour of the output when blocked.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first communication	0 • 1
Behaviour of the switching output	
On block	• Do not send message • send 0 • send 1
On release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	• Do not send message • Send switching output status
Switching output sends on change to 1	• Do not send message • if switching output = 1 ➔ send 1
Switching output sends on change to 0	• Do not send message • if switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status
Switching output sends on change to 1 and periodically	if switching output = 1 ➔ send 1
Switching output sends on change to 0 and periodically	if switching output = 0 ➔ send 0

5.9. Absolute humidity

The absolute air humidity value is detected by the **Suntracer KNX pro** and can be output to the bus.

Use absolute humidity	No • Yes

Sending pattern	• never • periodically • on change • on change and periodically
At and above change of *(if sent on change)*	0,1 g • 0,2 g • 0,5 g • 1,0 g • 2,0 g • 5,0 g
Send cycle *(if sent periodically)*	5 s • 10 s • 30 s... • 2 h

5.10. Comfort field

The **Weather Station Suntracer KNX pro** can send a message to the bus if the limits of the comfort field are exceeded. In this way, it is for example possible to monitor compliance with DIN 1946 (standard values) or even to define your own comfort field.

Use comfort field	No • Yes

Specify the sending pattern, a text for comfortable and uncomfortable, and how the object value should be.

Sending pattern	• never • on change • on change to comfortable • on change to uncomfortabel • on change and periodically • on change to comfortable and periodically • on change to uncomfortabel and periodi cally
Text for comfortable	Enter a text here!
Text for uncomfortable	Enter a text here!
Object value is at	• comfortable = 1 | uncomfortable = 0 • comfortable = 0 | uncomfortable = 1
Send cycle *(if sent periodically)*	5 s • 10 s • 30 s... • 2 h

Define the comfort field by specifying the minimum and maximum values for temperature and humidity. The specified standard values comply with DIN 1946

Maximum temperature in °C (Standard 26°C)	25 ... 40; 26
Minimum temperature in °C (Standard 20°C)	10 ... 21; 20
Maximum relative humidity in % *(*Standard 65%)	52 ... 90; 65
Minimum relative humidity in % (Standard 30%)	10 ... 43; 30
Maximum absolute humidity in 0.1 g/kg (Standard 115 g/kg)	50 ... 200; 115

Temperature switching distance: 1°C
Relative humidity switching distance: 2% RH
Absolute humidity switching distance: 2 g/kg

5.11. Brightness measurement value

Set the send pattern for the measured brightness. The highest currently measured value of the five internal sensors is used as the brightness value (since this maximum value is the best basis for shading control, the 5 individual sensor values are not output).

Send pattern	• never • periodically • on change • on change and periodically
at and above change in % *(if sent on change)*	1 ... 100; 20
Send cycle *(if sent periodically)*	5 s ... 2 h

5.12. Brightness threshold values

Activate the brightness threshold values required (maximum eight) The menus for the further setting of the threshold values are then displayed.
The maximum brightness level is decisive for the limit value outputs (see “Brightness measurement value” on page 148.).

Threshold value 1	No • Yes
Threshold value...	No • Yes
Threshold value 8	No • Yes

If the shade automation is to be used, a threshold value must be active!

5.12.1. Brightness threshold value 1-8

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	

threshold values and delays received via communication objects	• never • after power supply restoration • after power supply restoration and programming

Select whether the threshold value is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • Communications object

When the **threshold value per parameter** is specified, then the value is set.

Threshold value in kLux	1000 ... 150000; 60000

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

Start threshold value in Lux valid until first call	1000 ... 150000; 60000
Object value limit (min.) in Lux	1000 ... 150000
Object value limit (max.) in Lux	1000 ... 150000
Type of threshold change	Absolute value • Increase/decrease
Increment in Lux *(upon increase/decrease change)*	1000 • 2000 • 5000 • 10000 • 20000

With both of the methods for specifying the threshold values the switching distance (hysteresis) is set.

Switching distance setting	in % • absolute
Switching distance in % of the threshold value *(for setting in %)*	0 ... 100; 50
Switching distance in Lux *(for absolute setting)*	0 ... 150000; 30000

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Delay from 0 to 1	none • 1 s ... 2 h
Delay from 1 to 0	none • 1 s ... 2 h

Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(if sent periodically)*	5 s ... 2 h

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• Do not send message • send 0 • send 1
Action upon release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	do not send message • Status object/s send/s
Switching output sends on change to 1	do not send message • If switching output = 1 ➔ send 1
Switching output sends on change to 0	do not send message •
	If switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status
Switching output sends on change to 1 and periodically	If switching output = 1 ➔send 1
Switching output sends on change to 0 and periodically	If switching output = 0 ➔send 0

5.13. Twilight brightness threshold values

Activate the twilight threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

Threshold value 1	No • Yes

Threshold value...	No • Yes
Threshold value 4	No • Yes

5.13.1. Twilight threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
threshold values and delays received via communication objects	• never • after power supply restoration • after power supply restoration and programming

Select whether the threshold value is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • Communications object

When the **threshold value per parameter** is specified, then the value is set.

Threshold value in kLux	1 ... 1000; 10

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

Start threshold value in Lux valid until first call	1 ... 1000; 10
Object value limit (min.) in Lux	1 ... 1000
Object value limit (max.) in Lux	1 ... 1000
Type of threshold change	Absolute value • Increase/decrease
Increment in Lux *(upon increase/decrease change)*	1 • 2 • 5 • 10 • 20 • 50

With both of the methods for specifying the threshold values the switching distance is set.

Switching distance setting	in % • absolute
Switching distance in % of the threshold value *(for setting in %)*	0 ... 100; 50
Switching distance in Lux *(for absolute setting)*	0 ... 1000; 5

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Delay from 0 to 1	none • 1 s ... 2 h
Delay from 1 to 0	none • 1 s ... 2 h
Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(if sent periodically)*	5 s ... 2 h

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• do not send message • send 0 • send 1
Action upon release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	do not send message • status object/s send/s
Switching output sends on change to 1	do not send message • if switching output = 1 ➔ send 1
Switching output sends on change to 0	do not send message •
	if switching output = 0 ➔ send 0
Switching output sends on change and periodically	send switching output status

Switching output sends on change to 1 and periodically	if switching output = 1 ➔ send 1
Switching output sends on change to 0 and periodically	if switching output = 0 ➔ send 0

5.14. Night

If necessary, activate the night recognition.

Use night recognition	No • Yes

Set, in which cases delay times received are to be kept per object. The parameter is only taken into consideration if the setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
delays received via communication objects	• never • after power supply restoration • after power supply restoration and programming

Specify below which brightness the device should recognise "night" and with which switching distance this is to be outputted.

Night is recognised below Lux	1 ... 1000; 10
Switching distance in Lux	0 ... 500; 5

Set the delay for the switching and in which cases the switch output sends and which value is output at night.

Delays can be set via objects (in seconds)	No • Yes
Switching delay on night	none • 1 s ... 2 h
Switching delay on day	none • 1 s ... 2 h
Switching output sends	• on change • on change to night • on change to day • on change and periodically • on change to night and periodically • on change to day and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s
Object value at night	0 • 1

5.15. Sun position

Select whether the device should calculate the sun position itself or if the values are received via the bus. The type of object and send pattern are also set.

Sun position	is calculated • is received
Object type	4 Byte floating point • 2 Byte floating point
Send pattern *(if the sun position is calculated by the device)*	• never • periodically • on change • on change and periodically
on change of *(if sent on change)*	0.1 degrees • 0.2 degrees • 0.5 degrees • 1.0 degree • 2.0 degrees • 5.0 degrees
Send cycle *(if sent periodically)*	5 s ... 2 h; 1 min

5.16. Wind measurement

Enter the unit for wind speed.

If changing the unit, the parameters for the wind threshold values and facade/wind alarm must be set again!

Wind speed units: (valid for all parameters and measured values)	m/s • km/h

If necessary, activate the wind malfunction object. Specify whether the measurement should also be output in Beaufort.

Use malfunction object	No • Yes
Measured value additionally output in the Beaufort scale	No • Yes

Define the send pattern and, if necessary, activate the maximum value (this value is not retained after a reset).

Send pattern	• never • periodically • on change • on change and periodically
on change of *(if sent on change)*	2% • 5% • 10% • 25% • 50%
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s
Use maximum value	No • Yes

Beaufort scale

Beaufort	Meaning
0	Calm
1	Light air
2	Light breeze
3	Gentle breeze
4	Moderate breeze
5	Fresh breeze
6	Strong breeze
7	High wind
8	Gale
9	Severe gale
10	Storm
11	Violent storm
12	Hurricane

5.17. Wind threshold values

Activate the wind threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

Threshold value 1	No • Yes
Threshold value...	No • Yes
Threshold value 4	No • Yes

5.17.1. Wind threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
threshold values and delays received via communication objects	• never • after power supply restoration • after power supply restoration and programming
.	

Select whether the threshold value is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • Communications object

When the **threshold value per parameter** is specified, then the value is set.

Threshold value in 0.1 m/s	1 ... 350; 40

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set. From the 1st communication onwards, the threshold value corresponds to the value of the communication object and is not multiplied by the factor 0.1.

Start threshold value in 0.1 m/s valid until first call	1 ... 350; 40
Object value limit (min.) in 0.1 m/s increments	1 ... 350
Object value limit (max.) in 0.1 m/s increments	1 ... 350
Type of threshold change	Absolute value • Increase/decrease
Step size *(upon increase/decrease change)*	0.1 m/s • 0.2 m/s • 0.5 m/s • 1.0 m/s • 2.0 m/s • 5.0 m/s

With both of the methods for specifying the threshold values the switching distance (hysteresis) is set.

Switching distance setting	in % • absolute
Switching distance in % (relative to threshold value) *(for setting in %)*	0 ... 50; 20
Switching distance in 0.1 m/s *(for absolute setting)*	0 ... 350; 20

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Delay from 0 to 1	none • 1 s ... 2 h
Delay from 1 to 0	none • 1 s ... 2 h; 5 min

Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(if sent periodically)*	5 s ... 2 h

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• Do not send message • send 0 • send 1
Action upon release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	do not send message • Status object/s send/s
Switching output sends on change to 1	do not send message • If switching output = 1 ➔ send 1
Switching output sends on change to 0	do not send message •
	If switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status
Switching output sends on change to 1 and periodically	If switching output = 1 ➔send 1
Switching output sends on change to 0 and periodically	If switching output = 0 ➔send 0

5.18. Wind direction measured value

Measured value object

Specify whether the measured value is to be sent.

Send measured value	• no • periodically • on change • on change and periodically
On change of *(is only sent if „on change“ is selected)*	1° • 2° • 5° • 10° • 20° • 30°
Send cycle *(is sent periodically)*	5 s • ... • 2 h
Send measured value as	1 byte object • 4 byte object

Text object

Specify whether the wind direction should be sent as text.

Send wind direction as text	• no • periodically • on change • on change and periodically
Wind direction switching distance *(is only sent if „on change“ is selected)*	0° • 1° • 3° • 5° • 8° • 12° • 16° • 20°
Send cycle *(is sent periodically)*	5 s • ... • 2 h
at lower wind speed (v < 0.5 m/s):	Calm [Free text]
North (0°):	North [Free text]
North-East (45°):	North-East [Free text]
East (90°):	East [Free text]
South-East (135°):	South-East [Free text]
South (180°):	South [Free text]
South-West (225°):	outh-West [Free text]
West (270°):	West [Free text]
North-West (315°):	North-West [Free text]

1 bit object

Specify whether the wind direction is to be sent as a 1 bit object.

Send wind direction as a 1 bit object	• no • periodically • on change • on change and periodically
Wind direction switching distance *(is only sent if „on change“ is selected)*	0° • 1° • 3° • 5° • 8° • 12° • 16° • 20°
Send cycle *(is sent periodically)*	5 s • ... • 2 h
North (0°) if active, send:	0 • 1
North-East (45°) if active, send:	0 • 1
East (90°) if active, send:	0 • 1
South-East (135°) if active, send:	0 • 1
South (180°) if active, send:	0 • 1
South-West (225°) if active, send:	0 • 1
West (270°) if active, send:	0 • 1
North-West (315°) if active, send:	0 • 1

5.19. Wind direction ranges

Activate the wind direction ranges required (maximum four) The menus for the further setting of the threshold values are then displayed.

Use range 1	No • Yes
Use range...	No • Yes
Use range 4	No • Yes

5.19.1. Range 1-4

Wind direction angle range

Set, in which cases ranges and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and program-

ming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
Ranges and delays received via communication objects	• not • after power supply restoration • after power supply restoration and programming
.	

Select whether the range is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • Communications object

When the **angle range per parameter** is specified, then the value is set.

from:	0 ... 359
to:	0 ... 359

When the **angle range per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

Angle range until first communication:	
from:	0 ... 359
to:	0 ... 359
Type of range change	Absolute value • Increase/decrease
Step size *(upon increase/decrease change)*	1° • 2° • 3° • 5° • 8° • 12° • 16° • 20°

With both of the methods for specifying the range values the switching distance is set.

Switching distance	1° • 2° • 3° • 5° • 8° • 12° • 16° • 20°

Switching output

Set the delay for the switching and in which cases the switch output transmits.

Delays can be set via objects (in seconds)	No • Yes
Delay from 0 to 1	none • 1 s ... 2 h
Delay from 1 to 0	none • 1 s ... 2 h; 5 min
Send switching outputs	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(if sent periodically)*	5 s ... 2 h

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• Do not send message • send 0 • send 1
Action upon release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	do not send message • Status object/s send/s
Switching output sends on change to 1	do not send message • If switching output = 1 ➔ send 1
Switching output sends on change to 0	do not send message •
	If switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status
Switching output sends on change to 1 and periodically	If switching output = 1 ➔send 1
Switching output sends on change to 0 and periodically	If switching output = 0 ➔send 0

5.20. Air pressure measurement

If necessary, activate the air pressure malfunction object. Specify whether the measured value is, in addition, to be outputted as barometric pressure (see below *Information on air pressure*).

Use malfunction object	No • Yes
Measured value additionally output as barometric pressure	No • Yes

Define the send pattern and, if necessary, activate the minimum and maximum value (these values are not retained after a reset).

Send pattern measurement	• never • periodically • on change • on change and periodically

on change of *(if sent on change)*	10 Pa • 20 Pa • 50 Pa • 100 Pa • 200 Pa • 500 Pa
Send cycle *(if sent periodically)*	5 s ... 2 h; 1 min
Use minimum and maximum value	No • Yes

Information on air pressure

The unit for air pressure is Pascal (Pa).
1 Pa = 0,01 hPa = 0,01 mbar

The air pressure is specified as "normal air pressure" or as "barometric pressure". The normal air pressure is the pressure compensated for height and temperature. The barometric air pressure is the pressure measured directly by the sensor (without compensation).

Air pressure (in Pa)	Meaning	Weather tendency
up to 98,000 Pa	very low	stormy
98,000 ... 100,000 Pa	low	rainy
100,000 ... 102,000 Pa	normal	changeable
102,000 ... 104,000 Pa	high	sunny
104,000 Pa:	very high	very dry

5.21. Air pressure threshold values

Activate the air pressure threshold values required (maximum four) The menus for the further setting of the threshold values are then displayed.

Threshold value 1	No • Yes
Threshold value...	No • Yes
Threshold value 4	No • Yes

5.21.1. Air pressure threshold value 1-4

Threshold value

Set, in which cases threshold values and delay times received are to be kept per object. The parameter is only taken into consideration if the specification/ setting by object is activated further down. Please note that the setting "After power restoration and pro-

gramming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).
Select the type of measured value for the calculation of the threshold value (see *Information on air pressure*)

Maintain the	
threshold values and delays received via communication object	• never • after power supply restoration • after power supply restoration and programming
Type of measurement for threshold value calculation	• Normal air pressure • Barometric pressure

Select whether the threshold value is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • Communications object

When the **threshold value per parameter** is specified, then the value is set.

Threshold value in 10 Pa	3000 ... 11000; 10200

When the **threshold value per communication object** is specified, the starting value, object value limit and type of change to the threshold value are then set.

Start threshold value in 10 Pa valid until first call	3000 ... 11000; 10200
Object value limit (min.) in 10 Pa	3000 ... 11000
Object value limit (max.) in 10 Pa	3000 ... 11000
Type of threshold change	Absolute value • Increase/decrease
Step size *(upon increase/decrease change)*	10 Pa • 20 Pa • 50 Pa • 100 Pa • 200 Pa • 500 Pa

With both of the methods for specifying the threshold values the switching distance (hysteresis) is set.

Switching distance setting	in % • absolute
Switching distance in % (relative to threshold value) *(for setting in %)*	0 ... 50; 20
Switching distance in 10 Pa *(for absolute setting)*	0 ... 11000; 100

Switching output

Define which value the output transmits if the threshold value is exceeded or undercut. Set the delay for the switching and in which cases the switch output transmits.

When the following conditions apply, the output is (TV = Threshold value) (SD = Switching distance)	• TV above = 1 | TV - SD below = 0 • TV above = 0 | TV - SD below = 1 • TV below = 1 |TV + SD above = 0 • TV below = 0 |TV + SD above = 1
Delays can be set via objects (in seconds)	No • Yes
Delay from 0 to 1	none • 1 s ... 2 h
Delay from 1 to 0	none • 1 s ... 2 h
Switching output sends	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Cycle *(if sent periodically)*	5 s ... 2 h

Block

If necessary, activate the switching output block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use switching output block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• Do not send message • send 0 • send 1
Action upon release (with 2 seconds release delay)	[Dependent on the "Switching output sends" setting]

The behaviour of the switching output on release is dependent on the value of the parameter "Switching output sends" (see "Switching output")

Switching output sends on change	do not send message • Status object/s send/s
Switching output sends on change to 1	do not send message • If switching output = 1 ➔ send 1
Switching output sends on change to 0	do not send message •
	If switching output = 0 ➔ send 0
Switching output sends on change and periodically	Send switching output status

Switching output sends on change to 1 and periodically	If switching output = 1 ➔send 1
Switching output sends on change to 0 and periodically	If switching output = 0 ➔send 0

5.22. Summer Compensation

With the summer compensation the target value for the room temperature can automatically be adapted by cooling at higher outdoor temperatures. The objective is to prevent a too great a difference between indoor and outdoor temperature in order to keep the energy consumption low.

Activate the summer compensation.

Use summer compensation	No • **Yes**

Using the points 1 and 2, define the outdoor temperature range in which the target value for the indoor temperature is to be adapted linearly. Then, specify which indoor temperature target values are to be valid below point1 and above point 2.

Standard values according to DIN 1946

Point 1: External temperature = 20°, Target value = 20°C.
Point 2: External temperature = 32°, Target value = 26°C.

Characteristic curve description:	
External temperature point 1 (in 0.1°C increments)	0 ... 500 ; 200
Outdoor temperature point 2 (in 0.1°C increments)	0 ... 500 ; 320
below point 1 the target value is (in 0.1°C)	0 ... 500 ; 200
above point 2 the target value is (in 0.1°C)	0 ... 500 ; 260

Set the send pattern for the summer compensation.

Send pattern	• periodically • on change • on change and periodically
on change of *(if sent on change)*	0.1°C • 0.2°C • 0.5°C • 1°C • 2°C • 5°C
Send cycle *(if sent periodically)*	5 s ... 2 h; 1 min

If necessary, activate the block for the summer compensation and set what a 1 or 0 at the block input means and what happens in the event of a block.

Use block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Action when locking	• do not send • Send value
Value (in increments of 0.1°C) *(if a value is sent during blocking)*	0 ... 500; 200

5.23. Optimal usage of façade controller functions

5.23.1. Classifying the façades for the control unit

The control options for shades are façade-related functions.

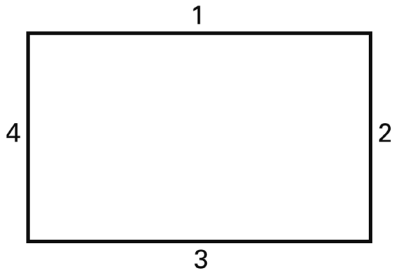


Fig. 2

Most buildings have 4 façades. It is generally recommended that the solar protection of each façade be controlled separately.

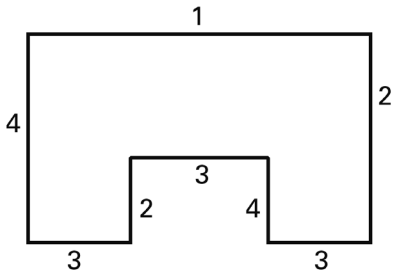


Fig. 3

Even in buildings with a U-shaped layout, only 4 façades have to be controlled differently, as several have the same alignment.

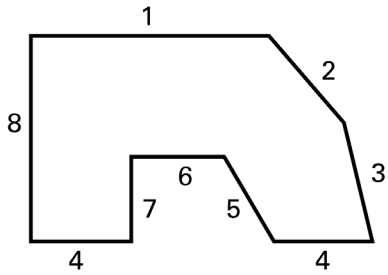


Fig. 4

In buildings with an asymmetrical layout the façades with a non-right-angled orientation (2, 3, 5) and façades that are set back (6) must be controlled separately.

Curved/round fronts should be divided into several façades (segments) to be controlled individually.

If a building has more than 12 façades, the deployment of another weather station is recommended; particularly as this also makes it possible to measure the wind speed in another location.

When there are several buildings, wind measurement should take place separately for each building (e.g. with additional KNX W sl wind sensors), as, depending on the positions of the buildings in relation to one another, different wind speeds may occur.

5.23.2. Orientation and inclination of the façade

Alignment and slant of the façade are needed for the shadow edge tracking and the slat auto-guide.

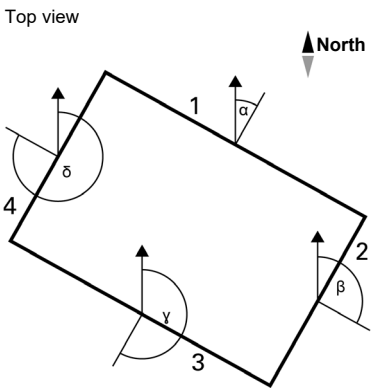


Fig. 5

The façade orientation corresponds to the angle between the North-South axis and the façade vertical. The angle α is measured here in a clockwise direction.

The façade orientations result as follows:

Façade 1: α
Façade 2: β = α+ 90°
Façade 3: γ = α + 180°
Façade 4: δ = α + 270°

Example: If the building is skewed by α = 30°, then the direction for façade 1 = 30°, façade 2 = 120°, façade 3 = 210° and façade 4 = 300°.

Side view

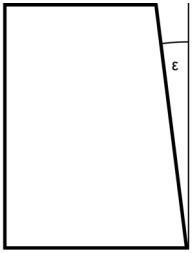


Fig. 6

If a façade surface is not oriented vertically, this must be taken into account. A forward inclination of the façade is counted as a positive angle; a backwards inclination (as in the picture) as a negative angle. This also allows a sunshade of a window built into a sloping roof surface to be controlled according to the current position of the sun.

If a façade is not a flat surface, but rather arched or bent, it must be subdivided into several segments to be controlled separately.

Remember, when setting a façade inclination greater than 0° also to adjust the height of the sun at which shading is to take place.

5.23.3. Shadow edge tracking and slat tracking

Shadow edge tracking

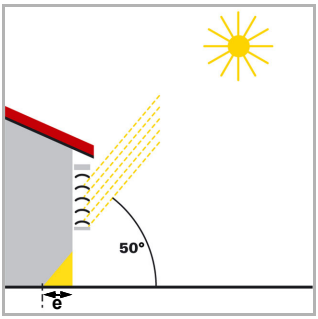
With shadow edge tracking the sunshade is not moved down fully; instead, it is moved only so far that the sun can still shine a configurable distance (e.g. 50 cm) into the room. This allows the room user to look outside through the lower part of the window, and plants which may be on the window ledge to be exposed to the sun.

Shadow edge tracking can only be used with a sunshade which is moved **from the top downwards** (e.g. shutters, textile shades or blinds with horizontal slats). This function *cannot* be used with sunshades which are pulled in front of a window from one or both sides.

Slat tracking

During slat tracking the horizontal slats of shutters are not fully closed but rather automatically adjusted according to the position of the sun so that it cannot shine directly into the room. Diffuse daylight can still enter the room through the slats and contribute to dazzle-free room lighting. Using slat tracking with an external shutter, the entry of warm air into the room through sunshine can be reduced and, at the same time, energy costs for lighting the room can be reduced.

Using shadow edge tracking and slat tracking

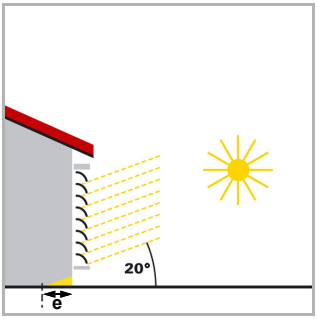


Sunshade when the position of the sun is high

Fig. 7

The sunshade is only partially closed and automatically moved down only enough so that the sun cannot shine further into the room than specified via the maximum permitted penetration depth (e).

The slats can be set horizontally without the sun shining directly into the room.

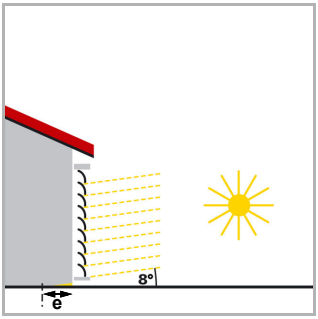


Sunshade when the sun is in a central position

Fig. 8

The sunshade is automatically moved down only far enough so that the sun does not exceed the maximum permitted penetration depth (e) in the room.

The slats are automatically closed further, so that the sun cannot shine directly into the room. Despite that, diffuse daylight can still reach the room and so contribute to the room lighting.



Sunshade when the position of the sun is low

Fig. 9

The sunshade is automatically moved down almost fully, so that the sun does not shine too far into the room.

The slats are automatically closed further, so that the sun does not shine in directly.

5.23.4. Slat types and determination of width and spacing

With slat tracking, a distinction is made between a sunshade or glare protection with horizontal slats and one with vertical slats.

A sunshade with horizontal slats (e.g. external shutter) is typically moved downwards from the top. In the case of an internal glare protector there are versions consisting of thin strips of material (vertical slats), which can be rotated by up to 180° and are pulled out from one or both sides of the window.

Both types of slat can be adjusted by the sensor **Suntracer KNX pro** so that no direct sunlight falls into the room, but as much diffuse daylight as possible does.

In order for slat tracking to set the slats correctly, their width and spacing from one another must be known.

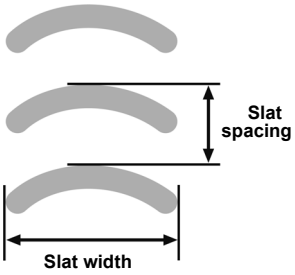


Fig. 10

Horizontal slats

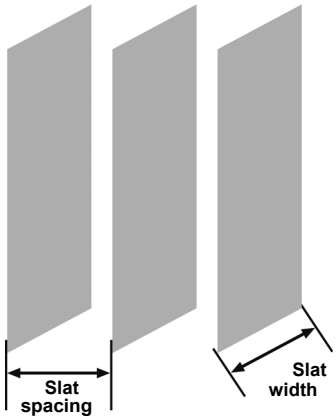


Fig. 11

Vertical slats

5.23.5. Slat position for horizontal slats

The slat angle at 0% move command and at 100% move command must, during commissioning, be aligned to the pre-settings of the product parameters of the **Weather Station Suntracer KNX pro**, and, if necessary, corrected, so that the slat guide on the façade works properly.

The drive used for the shutters defines whether this adjustment can take place almost continuously during slat tracking in many small steps (as with SMI drives, for example) or whether it is only possible in a few large steps (as with most standard drives).

Slat position at 100%

After moving to the 100% slat position the slats form an angle α with the vertical. This angle must be entered in the parameter "Slat angle (in °) after slat move command 100%" (see *Sonnenschutzposition und Nachführungen*, page 98 following). The default setting is 10°.

The angle α is always measured to the vertical (perpendicular).

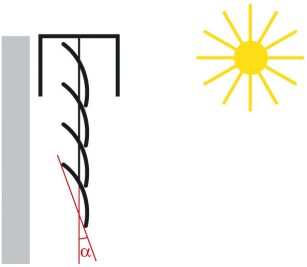


Fig. 12

Example of a typical slat position at move command 100% (angle α approx. 10°)

Slat position at 0%

After moving to the 0% slat position the slats form another angle with the vertical. This must be entered in the parameter "Slat angle (in °) after slat move command 0%" (see *Sonnenschutzposition und Nachführungen*, page 98 following). The default setting is 90°.

The possible angle at slat position 0% depends on the mechanics of the blind and the actuator.

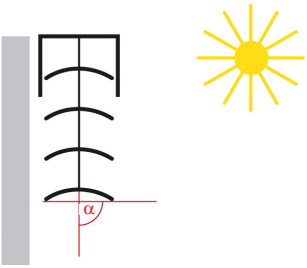


Fig. 13

Example 1 of a slat position at move command 0% (angle α approx. 90°)

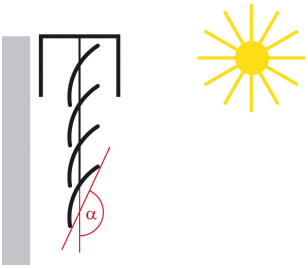


Fig. 14

Example 2 of a slat position at move command 0% (angle α approx. 160°)

By setting the actual angle at 0% and 100% slat position the façade controller can convert the optimal slat angle for the actual sun position into a % command and transmit this to the actuator.

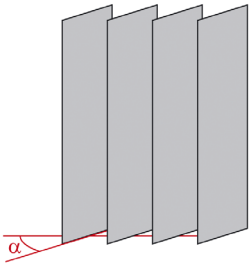
5.23.6. Slat position for vertical slats

The slat angle at 0% move command and at 100% move command must, during commissioning, be aligned to the pre-settings of the product parameters of the **Weather Station Suntracer KNX pro**, and, if necessary, corrected, so that the slat guide on the façade works properly.

Slat position at 100%

After moving to the 100% slat position the slats form an angle α with the direction of movement. This angle must be entered in the parameter "Slat angle (in °) after slat move command 100%" (see *Sonnenschutzposition und Nachführungen*, page 98 following). The default setting is 10°.

The angle α is, seen from the outside, always measured to the left.



View from the outside

Fig. 15

Example of a slat position at move command 100% (angle α approx. 10°)

Position 0%

After moving to the 0% slat position the slats form another angle with the direction of movement. This must be entered in the parameter "Slat angle (in °) after slat move command 0%" (see *Sonnenschutzposition und Nachführungen*, page 98 following). The default setting is 90°.

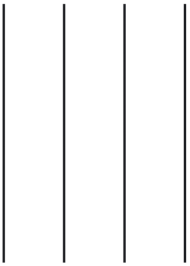
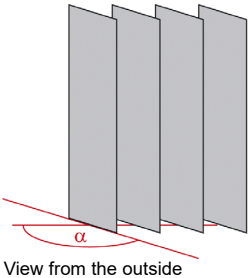


Fig. 16

Example 1 of a slat position at move command 0% (angle α approx. 90°)



View from the outside

Fig. 17

Example 2 of a slat position at move command 0% (angle α approx. 130°)

The possible angle utilisation (difference between slat position 100% and 0%) depends on the mechanics of the blind and the actuator. Take care that the angle utilisation is not limited by the configuration of the actuator.

By setting the actual angle at 0% and 100% slat position the façade controller can convert the ideal slat angle for the actual sun position into a % command and transmit this to the actuator.

5.24. Simulation

Simulation objects help when testing the settings that have been made for façades. They are activated in the setting area *Façades*. By sending various values to the simulation objects number 656 to 671 different weather conditions and times of day can be tested. With the object "670 façade simulation reset (1:Reset)" you can delete all the simulation values that were set.

Activating simulation

In order to start the simulation, the simulation object for the façade must be activated. For façade 1, for example, the object is "672 façade 1 simulation (1: On | 0: Off) Set the value of this object to 1 to start the simulation for façade 1.

The facade and all other subordinate functions must be released (no active blocks) so that the simulated positions can be output.

When the simulation is activated the retraction delay (movement delay LONG) is set to 10 seconds. All other delay times are set to 0. All output objects of the relevant façade

adapt their state to the values of the input objects for the simulation. The objects for normal operation are ignored.

Ending the simulation

Set the value of the object "Façade 1 simulation (1:on | 0:off)" to 0 to end the simulation for façade 1.

When deactivating the simulation, it is possible that when an automation is performed for the first time (e.g. sun automation) that the delay times from the simulation are still used. All output objects of the relevant façade adapt their state to the values of the input objects for normal operation. The simulation objects are once again ignored.

The most recently received values for the simulation objects and also for the objects for normal operation are retained when switching between simulation and normal mode. No reset takes place. This means that when the simulation is ended the last used value for normal operation is applied.

Calculation of the sun position for the simulation

During the simulation it is possible to have the sun position, dependent on the simulation object for date and time, sent to the bus. In order that this functions, a location must be set in the product parameters or the location received via GPS. As long as the location is unknown sun positions are not calculated in the simulation.

5.25. Status output

The status of the automation functions of the façade controller can be used for visualisation or other bus functions. The device offers various possibilities for the status output.

Object status

A status object is available for every function of the automatic.

For the rain alarm on façade 1, for example, it is the object No. 685 "Façade 1 rain alarm status".

Status of all façades

The status of all façades and their automatic functions can be issued in a compact form via an automatic status-bit object. For this purpose, a status of safety, automatic delay after an alarm, wind extension block, timed opening, timed/night closure, heat protection, pyranometer, rain automation, indoor temperature block, outdoor temperature block, shading because of the sun or automatic status, can be issued for every façade. Only the condition *of one* function *of one* façade is always issued. Using the object 655 one can switch to the next function (status-bit) and/or with the object 650 to the next façade.

The objects 648 to 655 are used for the compact output.

No.	Identification	Range	Function / Info
648	Façade X channel Status output	Activation	Set to "active" in order to use the status output
649	Façade X channel Name	Façade	Output of the façade name (when changing façades). Name of the parameter can be adapted (see *Fassade Sicherheit*, page 84).
650	Façade X channel (1:+ | 0:-)	Façade	Change to the next/previous façade.
651	Façade X channel Status text	Status	Output of the condition of the selected status-bit as text. Text can be adapted per parameter, see *Texte für Fassade (Objekt „Fass. X Kanal Zustand Text“)*, page 83.
652	Façade X channel Status-bit text	Status	Text output for visualising the selected status-bit (when changing the status bit). Text can be adapted per parameter, see *Texte für Status-Bits (Objekt „Fass. X Kanal Statusbit Text“)*, page 84.
653	Façade X channel Status-bit condition	Status	Output of the selected automatic status-bit
654	Façade X channel Delay	Status	Displaying the delay time for the selected status-bit. Some automation functions have delay times that must first be run through before the status-bit is (re-)set.
655	Façade X channel Status-bit selection (1:+ | 0:-)	Status	Output of the automatic status-bit

Status of a façade

The compact form of the status output described for all façades can also be performed for single façades. For this, the objects 731 to 736 are used for façade 1, for the other façades the objects named accordingly for the desired façade. The status output corresponds to that for all façades, only that here the objects for changing façades and the text object for the output of the name of the façade are missing. The text output with the object 733 "Façade 1 channel status-bit text" is also taken from the table *Texts for object „façade. X: Channel status-bit text“*.

5.26. Façade setting

If necessary, activate the façade controller (shading controller). When the façade controller is activated, the objects for the simulation of various parameter settings can also be activated. For this simulation, with the exception of a retraction delay (10 seconds),

no time functions (delay times etc.) are used. Please observe the instructions for the simulation in chapter *Simulation*, page 173

Use façades	No • Yes
Use simulation objects	No • Yes

In addition, you must activate the required façades individually in order to load the menus for the safety and automation functions.

Use façade 1	No • Yes
Use façades ...	No • Yes
Use facade 8	No • Yes

Furthermore, fundamental settings for the façade controller are made in the façade menu, e.g. for wind and rain alarm, twilight, outdoor temperature sensor, frost and heat protection and the status output.

General settings

Set, in which cases threshold values received are to be kept per object. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
target threshold values received via communication objects	• never • after power supply restoration • after power supply restoration and programming

Live monitoring

If the functionality of the wind and rain sensors is to be checked, use wind and rain object monitoring. If data is not regularly being received from the sensors, a defect is assumed and the corresponding alarm is triggered.

Using wind and rain object monitoring	No • **Yes**
Monitoring period	5 s ... 2 h

Independently of live monitoring, the measured values for wind, outdoor temperature and global radiation (pyranometer) are monitored **for changes**. After 48 hours without any change in the measured values a defect is assumed and the corresponding function is set to alarm or block. No settings are required for this.

Wind and rain alarm

Set the automation block for wind and rain alarm. Please observe, that this block begins after the end of the wind or rain alarm and is **only valid for automation**. It avoids frequent extension and retraction during rapidly changing weather conditions. Manual operation is again possible directly after the end of the alarm.

The duration of the blocking can be specified by parameter or received as an object via the bus.

Preset automation blocking duration per	Parameter • object
Automation blocking duration after wind and rain alarm (in minutes) *(for definition via an object only valid until first call)*	0 ... 360; 5

When specifying the blocking duration **by object** the minimum and maximum blocking duration and the increment for the change to the parameter are also defined.

Minimum automation blocking duration	0 ... 360
Maximum automation blocking duration	0 ... 360; 30
Blocking duration increment	0 ... 50; 1

Rain automation

For external shades either a rain alarm or a rain automation can be set which have opposite functions. The selection is made in the menu *Façades: Façade X safety*.

The rain alarm protects the shading against getting wet. The rain automation ensures that the shading is, under certain conditions, extended during rainfall. The curtain can thus be cleaned by natural means. Please observe the specifications from the manufacturer of the curtain and set the rain alarm or automation accordingly.

If a rain automation has been set for the shading, then the extension delay can be specified directly via parameter or received as an object via the bus.

Preset extension delay for rain automation per	Parameter • object
Extension delay on rain automation (in minutes) *(for definition via an object only valid until first call)*	0 ... 360; 5

Rain alarm: Shading is retracted as soon as precipitation is signalled and is blocked during the precipitation.
Rain automation: Precipitation is only considered in pre-set periods. A rain position is approached. The extension delay during precipitation can be set.

Night

Set the night threshold value. The threshold value can be specified directly by parameter or received as an object via the bus. The device's internally measured value is used for brightness. The switching delay between day and night is 1 minute.

Preset threshold value for night per	Parameter • object
Night is determined at a light level below (in Lux) *(for definition via an object only valid until first call)*	1 ... 200; 10

When specifying the threshold value **by object** the minimum and maximum values that can be set for twilight values and the increment for the change are also defined.

Minimum variable value (in Lux) for twilight	1 ... 200; 2
Maximum variable value (in Lux) for twilight	1 ... 200; 100
Increment (in Lux)	1 ... 10; 2

Outdoor temperature

Define which outdoor temperature value for frost alarm, heat protection and outdoor temperature block are to be used. The device's own internal values or a value received via a communication object can be used.

Measured value from	Internal sensor • communication object

After 48 hours without any change in the value a defect is assumed and the frost alarm, heat protection and outdoor temperature block are activated.

Heat protection

Define the outdoor temperature for the heat protection. The threshold value can be specified directly by parameter or received as an object via the bus.

Preset threshold value for heat protection per	Parameter • object
Activate heat protection, if outdoor temperature is exceeded.	
Temperature (in 0.1°C) *(for definition via an object only valid until first call)*	100 ... 500; 350
Switching distance (in 0.1°C)	10 ... 200; 50

When specifying the threshold value **by object** the minimum and maximum values that can be set for temperature and the increment for the change are also defined.

Minimum temperature that can be set (in 0.1 °C)	100 ... 500; 200
Maximum temperature that can be set (in 0.1 °C)	100 ... 500; 380
Increment (in 0.1 °C)	1 ... 10; 5

Frost alarm

This frost alarm is only used within the façade controller and is independent of the general parameter *Frost alarm* (see *Frost alarm*, page 178).

The frost alarm is active in cold outdoor temperatures in combination with precipitation. The conditions can be specified directly by parameter or received as an object via the bus.

Preset frost protection values per	Parameter • object
Start frost alarm when	
an external temperature of (in 0.1 °C) is not reached. *(for definition via an object only valid until first call)*	-200 ... 300; 20
during or until (in hours) after precipitation. *(for definition via an object only valid until first call)*	1 ... 10; 5
End frost alarm when	
an external temperature of (in 0.1 °C)	-200 ... 300; 50
for more than (in hours) is exceeded.	1 ... 10; 5

When specifying the conditions **by object** the minimum and maximum temperature and time values that can be set and the temperature increment for the change are also defined.

Start frost alarm when	
Minimum outdoor temperature that can be set (in 0.1 °C)	-200 ... 300; -10
Maximum outdoor temperature that can be set (in 0.1 °C)	-200 ... 300; 40
Minimum start-time that can be set (in 0.1 °C)	1 ... 10
Maximum start-time that can be set (in 0.1 °C)	1 ... 10
End frost alarm when	
Minimum outdoor temperature that can be set (in 0.1 °C)	-200 ... 300; 20
Maximum outdoor temperature that can be set (in 0.1 °C)	-200 ... 300; 100
Minimum start-time that can be set (in 0.1 °C)	1 ... 10
Maximum start-time that can be set (in 0.1 °C)	1 ... 10
Temperature increment (in 0.1 °C)	0 ... 250; 5
Time increment ± 1 hour	

Status output façade

Information on the various possibilities for the status output can be found in chapter *Status output*, page 174. In principal the status output is a singular function, but, in compact form, possible for singular and for all façades possible. For the output in a compact form pre-sets are made here and the output texts defined.

Set which value in the status release object **for all façades** means active respectively inactive.

Analysis of the status release object	• 1 = activated | 0 = deactivated • 0 = activated | 1 = deactivated
value until first call	0 • 1

For the status output the status bit selected (i.e. the function) and, if applicable, also the active façade is output. As a result, it can easily be visualised which status is just being issued. The texts can be adapted individually and should, as a maximum, be 14 characters long.

Texts for façade (Object "Fac. X channel state text"

Safety	Safety [Free text]
Automatic delay after alarm	Autom. delay [free text]
Wind extension block	Wind ext. bl. [free text]
Time open	Time - open [Free text]
Outdoor temperature block	Outd. temp. Sp. [free text]
Time/night closure	Time/night clo. [free text]
Heat protection	Heat protection [Free text]
Pyranometer	Pyranometer [Free text]
Rain automation	Rain automation [Free text]
Interior temperature block	Int. temp. Sp. [free text]
Shading because of the sun	Brightness [Free text]
No automation active	No automat. [free text]

Texts for status bits (Object "Fac. X channel status bit text"

Blocking the automation via Communications object	Auto. Block [Free text]
Wind extension block status	Wind ext. bl. [free text]
Wind alarm status	Wind alarm [Free text]
Rain alarm status	Rain alarm [Free text]
Rain automation status	Rain automation [Free text]
Frost alarm status	Frost alarm [Free text]
Safety status	Safety [Free text]
Time open status	Time open [Free text]
Outdoor temperature blocking status	Out-temp block [Free text]
Night closure status	Night closure [Free text]
Timed closure status	Timed closure [Free text]
Heat protection status	Heat protection [Free text]
Pyranometer status	Pyranometer [Free text]
Indoor temperature blocking status	Indoor-temp block [Free text]

Sun shining on façade status	Sun on fac. [Free text]
Sun bright, short retraction delay Status	Bright. short [Free text]
Sun bright, long retraction delay Status	Bright. long [Free text]

5.26.1. Façade safety

Set the basic and safety relevant functions for the façade.

Enter a name for the façade and specify whether simulation objects are to be loaded. Simulation help when testing the settings that have been made. For this observe the chapter *Simulation*, page 173.

For shutters and slat blinds use the setting - shade has slats. As a result, further settings, especially for slats, are possible.

Name	Façade 1 [Free text]
Use simulation objects	No • Yes
Does the shade have slats?	No • Yes

Configure the blocking for the façade and define how safety/ alarm objects and movement/position objects are to be handled.

Analysis of the blocking object	• 1 = block | 0 = release • 0 = block | 1 = release
Blocking object value before first call	0 • 1
Action after locking	• executing the last automation command • Waiting for next automation command
Consolidate wind, frost and rain alarms to safety object?	No • Yes
Send pattern of the safety and alarm status objects	• on change • on change to 1 • on change to 0 • on change and periodically • on change to 1 and periodically • on change to 0 and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s
Send pattern of the move and slat position objects	• on change • on change and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s

Set, in which cases threshold values received are to be kept per object.

Maintain the	
target threshold values received via communication objects	• never • after power supply restoration • after power supply restoration and programming
(applicable for façade safety and façade automation)	

This setting also affects the release objects of the facade automation (opening time, time and night closing, heat protection, pyranometer, rain automation, indoor temperature block, outdoor temperature block and solar protection automation).

Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Priorities

The functions of the façade are arranged according to their priorities. First named have higher priority. 1. Wind, 2. Frost, 3. Rain.

Wind alarm and wind extension block

If the wind threshold values are exceeded, a wind alarm can be triggered, i.e. the shade is retracted.

If the wind extension block is active, the curtain can no longer be extended (not even by manual commands). If the curtain has already been extended, it remains in its position.

If the wind alarm is used, then, as a precaution, the alarm is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant wind sensor.

Set with what the wind alarm and, if desired, wind extension blocking is to be defined.

Use	• No • as wind alarm per threshold value • as wind alarm per bit object • as wind alarm and extension block per threshold value • as wind alarm per threshold value/extension block per bit object • as wind alarm per bit object/extension block per threshold value • as wind alarm/wind extension block per bit object

If **alarm or extension block per bit object** is defined, no further settings are required. The wind alarm is defined externally and the alarm or block information is received by the weather station as a 1-bit object. The duration of blocking by the auto-

mation after a wind alarm is set in the "façades" menu (see *Wind and rain alarm*, page 176).

If **Alarm or extension block per threshold value** is defined, then set which sensors are relevant for this. The wind value measured internally in the device can be used, but also the values of the external wind communication objects assigned to the façades. With several sensors, only one must exceed the threshold value in order for the alarm/ block to become active.

In addition, a delay can be specified per parameter. It specifies the time that elapses from the point at which the threshold value is exceeded until the wind alarm or the wind extension block is triggered. If the value falls below the threshold value, a fixed holding time of 5 minutes elapses before the wind alarm / the wind extension block is deactivated again. If the threshold value is exceeded within 5 minutes, the holding time starts again from the beginning.

After the five-minute holding time has elapsed, the automatic block starts. It is set in the "Façades" menu (see *Wind and rain alarm*, page 176). Manual driving is possible again immediately after the holding time has elapsed.

Internal sensor measurement	No • Yes
Communication object measurements	
Façade wind 1 ... 12	No • Yes

Select whether the threshold value is to be specified per parameter or via a communication object.

Threshold value setpoint using	Parameter • object

When the **threshold value per parameter** is specified, then the value and delay time are set.

Wind threshold value (in 0.1 m/s) prevents shading (extension block)	0 ... 255; 40
Wind alarm threshold (in 0.1 m/s) retracts the shade (wind alarm)	0 ... 255; 40/80;
Wind alarm delay (in s)	0 ... 255; 2

When the **threshold value per communication object** is specified, then the starting value, minimum and maximum threshold value and delay time are set.

Wind alarm threshold (in 0.1 m/s) retracts the shade	0 ... 255; 80
Minimum threshold value (in 0.1 m/s)	0 ... 255; 20
Maximum threshold value (in 0.1 m/s)	0 ... 255; 120
0.5 m/s increment	
Wind alarm delay (in s)	0 ... 255; 2

Frost alarm

Set whether the frost alarm is to be used for this façade. Further parameters for the frost alarm are set in the "façades" menu (see *Frost alarm*, page 178).

Use	No • Yes

If the frost alarm is used, then, as a precaution, the alarm is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant outdoor temperature sensor.

Rain

In the event of precipitation either a rain alarm can be triggered for the façade, i.e the shade is retracted and blocked, or a rain automation is executed. The rain automation moves to a certain position and is valid for the periods set. At other times with "rain automation" set the shade does not react to precipitation.

Further parameters for the rain automation are set in the "façades" menu (see *Rain automation*, page 177). Rain alarm does not have any extension delay.

Set whether precipitation should trigger the rain alarm or the rain automation.

Use	• No • as rain alarm • as rain automation

If in the event of precipitation, the **rain automation** is triggered, then set in which periods of the week and the calendar-timer, the rain movement position is to be travelled to. The periods are defined in the menu "week timer" or "month timer" (see *Weekly timer*, page 201 and *Calendar timer*, page 203).

Use rain automation	
with week timer	
Period 1 24	No • Yes
with calendar timer	
Period 1...4 Sequence 1/2	No • Yes

Then also set the movement position.

Movement position (in %)	0 ...100
Slat position (in %) *(only for window shades with slats)*	0 ...100

Define the value of the release object for the rain automation. Using the release object, the rain automation can be deactivated at short-notice.

Evaluation of the rain automation - release object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

Define the follow-up time The follow-up time is the delay time after the end of the precipitation warning.

Rain automation follow-up time in minutes	1 ... 120; 5

Within the automation functions the rain automation has a low priority. To display the sequence, rain automation is also listed in the *Façade X automation* without the settings being possible.

5.26.2. Façade automation

Set automation for the façade

Priorities

The functions of the façade are arranged according to their priorities. First named have higher priority. 1. Time open, 2. Time and night closure, 3. Heat protection, 4. Pyranometer 5. Rain automation 6. Interior temperature block, 7. Outdoor temperature block, 8. Solar protection automation.

Time open

The curtain can, at certain times, be opened compulsorily or stay open. For time opening, a movement position can be defined.

Set whether a time opening is to be used.

use	No • **Yes**

Set in which periods of the week and the calendar-timer, the time opening movement position is to be approached. The periods are defined in the menu "week timer" or "month timer" (see *Weekly timer*, page 201 and *Calendar timer*, page 203).

Use time opening	
with week timer	
Period 1 24	No • Yes
with calendar timer	
Period 1...4 Sequence 1/2	No • Yes

Set the movement position. Define the value of the release object for time opening. Using the release object, time opening can be deactivated at short-notice.

Movement position (in %)	0 ...100
Slat position (in %) *(only for window shades with slats)*	0 ...100
Evaluation of the time opening-release object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

Time and night closure

The curtain can, at certain times, and at night, be closed compulsorily. For the time and night closure a movement position can be defined.

Set whether a time and/or night closure is to be used

Use	No • **Yes**
Use timed closure	No • Yes
Use night-time closure	No • Yes

For the **timed closure**, set in which periods of the week and the calendar-timer, the timed closure movement position is to be travelled to. The periods are defined in the menu "week timer" or "month timer" (see *Calendar timer*, page 203 and *Calendar timer*, page 203).

Use time opening	
with week timer	
Period 1 24	No • Yes
with calendar timer	
Period 1...4 Sequence 1/2	No • Yes

Define the value of the release object for the timed closure. Using the release object, the timed closure can be deactivated at short-notice.

Evaluation of the timed closure-release object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

Define the value of the release object for the **night closure**. Using the release object, the night closure can be deactivated at short-notice.

Evaluation of the timed closure-release object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

The brightness below which the "night" is recognised is set in the "façades" menu (see *Night*, page 177).

You can define that the **time and night closure** are only performed once per period/ night. Then also set the movement position.

Night and timed closure only once	No • Yes
Position for night or timed closure	
Movement position (in %)	0 ... 100
Slat position (in %) *(only for window shades with slats)*	0 ... 100

Heat protection

Above a certain outdoor temperature, a heat protection can be travelled to. Further parameters for heat protection are set in the "façades" menu (see *Heat protection*, page 187).

Define the value of the release object. Using the release object, the heat protection can be deactivated at short-notice.

Evaluation of the heat protection object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

Set the movement position.

Position for heat protection	
Movement position (in %)	0 ... 100
Slat position (in %) *(only for window shades with slats)*	0 ... 100; 90

If heat protection is used, then, as a precaution, protection is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant temperature sensor.

Pyranometer (global radiation)

Above a certain global radiation value, a protection position can be taken up.

Set whether the global radiation is to be considered. The threshold value can also be set by "changeable per object".

Use	• No • Yes • Changeable per object

To use the pyranometer, activate at least one of these 4 parameters (Façade pyranometer 1...4). If the corresponding pyranometer-measured value in W/m² exceeds the set pyranometer threshold value in W/m², the 'Pyranometer status' output object sends the value 1 = On to the bus. If all the pyranometer-measured values used have fallen below the set pyranometer threshold value and the set delay has elapsed, the 'Pyranometer status' output object sends the value 0 = Off to the bus.

Pyranometer façade 1...4	No • Yes

Then set the threshold value for the global radiation and the switching distance for the event that the value is not reached.

Deactivate block for outdoor temperatures above	
Threshold value (in W/m²) (*if changeable:* until first call)	0 ... 2500; 500

Switching distance threshold value in	percent • Watt/m²
Switching distance of the threshold value (in 0.1 °C) (in %)	 0 ... 2500; 400 0 ... 100; 30

When specifying the threshold value **by object** the minimum and maximum values that can be set and the increment for the change are also defined.

Minimum threshold value that can be set (in W/m²)	0 ... 2500; 100
Maximum threshold value that can be set (in W/m²)	0 ... 2500
Threshold value increment (in W/m²)	0 ... 200; 50

Set the movement position and define the value of the release object. Using the release object, the pyranometer controller can be deactivated at short-notice.

Movement position pyranometer	
Movement position (in %)	0 ... 100
Slat position (in %) *(only for window shades with slats)*	0 ... 100; 90
Evaluation of the Pyranometer release object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

If global radiation monitoring is used, then, as a precaution, the protection is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant pyranometer.

Rain automation

If rain protection has configured as rain automation, then its priority is between the pyranometer controller and the interior temperature block. Rain automation is set in the general settings of the *façade* (see chapter *Rain automation*, page 188) and at *façade X safety* (see chapter *Rain*, page 184).

Interior temperature block

Below a certain interior temperature, the curtain can be prevented from opening.

Set whether an interior temperature block is to be used. The threshold value can also be set by "changeable per object".

Use	• No • Yes • Changeable per object • are activated via the bit object

Then set the threshold value for the temperature block and the switching distance for the event that the value is not reached.

Allow shading at internal temperature above	
Threshold value (in 0.1°C increments) (*if changeable:* until first call)	-32768 ... 32767; <u>200</u>
Switching distance (in 0.1°C)	-200 ... 300; <u>20</u>

When specifying the threshold value **by object** the minimum and maximum values that can be set and the increment for the change are also defined.

Minimum variable per object Threshold value (in 0.1°C increments)	-32768 ... 32767; <u>100</u>
Maximum variable per object Threshold value (in 0.1°C increments)	-32768 ... 32767; <u>350</u>
Increment for threshold value change (in 0.1°C)	1 ... 20; <u>5</u>

When specifying the threshold value **by bit object** the interior temperature block object is also defined.

Assessment of the indoor temperature blokcing object	<u>1 = Lock | 0 = Release</u> 0 = Lock | 1 = Release
Action until first communication	<u>disable</u> • enable

Define the value of the release object for the interior temperature block. Using the release object, the interior temperature block can be deactivated at short-notice.

Evaluation of the interior temperature blocking release object	<u>1 = activated | 0 = deactivated</u> 0 = activated | 1 = deactivated
value until first call	0 • <u>1</u>

Solar protection automation

If none of the blocks is active, then the position of the sun and the brightness are checked and is, corresponding to the solar protection automation, shaded.

Set whether solar protection automation is to be used.

Use	<u>No</u> • **Yes**

Define the value of the release object for solar protection automation. Using the release object, solar protection automation can be deactivated at short notice.

Evaluation of the solar automation release object	<u>1 = activated | 0 = deactivated</u> 0 = activated | 1 = deactivated
value until first call	0 • <u>1</u>

Sun position

Set the direction and height of the sun for shading. The angle, which is specified for the direction of the sun (azimuth), is aligned according to the orientation of the façade. In addition, the angle of the façade and obstacles which cast a shadow on the façade, such as, for example, a wall or overhanging roof, can also be taken into account in the setting for sun direction (azimuth) and sun height (elevation).

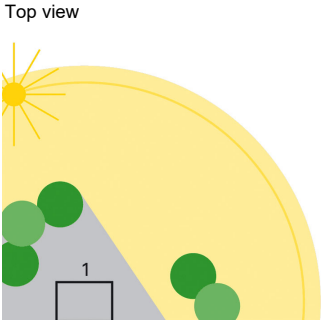


Fig. 18

1a: Sun elevation (Azimuth)

In the morning the building is fully shaded by surrounding trees.

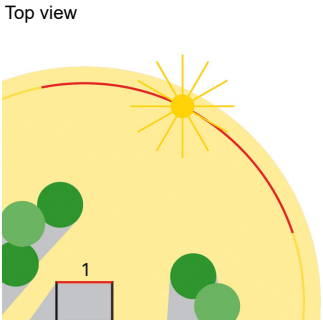


Fig. 19

1b: Sun elevation (Azimuth)

For façade 1, shading must only be active in the azimuth marked red, as the sun can then shine on to the building without obstruction

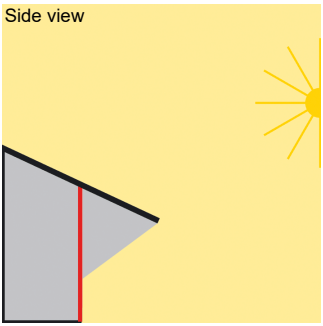


Fig. 20

2: Sun position (Elevation)

When the sun's position is high, the façade is only shaded by the roof overhang. Shading is only necessary if the sun is low (in the figure approx. below 53°).

Select whether the ranges for the direction and height of the sun are to be specified per parameter or via a communication object.

Specification for the ranges of sun direction and height by	Parameter • object

If the ranges are specified **by parameter**, then several ranges can be specified. Specify the direction for the shading, either with the defined compass direction or with "angle range" and by inputting the values exact to a degree. If the ranges are specified **by communication object**, then only the starting values for direction and height are defined, that are valid until the first call.

Number of ranges for sun direction and height	1 • 2 • 3
Range 1 / 2 / 3	
Sun direction (*when specified by object:* valid until first call)	• All sides (0° ... 360°) • West (180° ... 360°) • South-West (135° ... 315°) • South (90° ... 270°) • South-East (45° ... 225°) • East (0° ... 180°) • Angle range
at and above (in °) *(for angle range)*	0 ... 360; 90
until (in °) *(for angle range)*	0 ... 360; 270
Sun elevation (*when specified by object:* valid until first call)	• every height (0° ... 90°) • Angle range
at and above (in °) *(for angle range)*	0 ... 90
until (in °) *(for angle range)*	0 ... 90
Incrementally in ° *(for specification by object)*	1 ... 10; 2

For sun direction and height, a fixed switching distance of 1° is valid

Brightness value (sensor selection)

Next you select which brightness value (sensor) is to be relevant for the shading of the façade. The highest currently measured value of the five internal sensors can be used as the brightness value (since this maximum value in conjunction with the position of the sun provides the best basis for shading control, the 5 individual sensor values are not output), or a value that was received via a communication object.

Brightness sensor selection:	• Internal sensors (maximum value) • via communication object

Brightness threshold value

Select whether the brightness threshold value is to be specified per parameter or via a communication object. Please observe that the communication object outputs the threshold value in *Lux* the threshold value, however is set in *Kilolux*.

Threshold value definition for brightness per	Parameter • object

Set the brightness threshold value and the switching distance for the event that the value is not reached. If the value is specified via communication object, then a starting value and the possible setting range is defined.

Threshold value (in kLux) (*when specified by object:* valid until first call)	1 ... 150; 60
Minimum threshold value that can be set (in kLux) *(for specification by object)*	1 ... 150; 10
Maximum threshold value that can be set (in kLux) *(for specification by object)*	1 ... 150; 80
Increment for threshold value (kLux) *(for specification by object)*	1 ... 5; 5
Switching distance threshold value in	in percent (%) • in kLux
Switching distance of the threshold value (in kLux) (in %)	 1 ... 150; 20 0 ... 100; 30

Travel delays

For the shading there are three travel delays:

The **extension delay** defines the waiting time for the sun automation after the brightness threshold value has been exceeded.

At the end of the **short delay time** after the brightness value has not been reached an intermediate position is approached. For example, here a position can be defined that only differs from the shading position "extended" by the slat position on the shutter. The shade does not immediately go up, but lets in somewhat more light. This position is set further down in the same menu.

The **retraction delay** defines the waiting time for the retraction after the brightness threshold value has not been reached.

Select whether the travel delay is to be specified per parameter or via objects.

Specifying the withdrawal and extension delay	Parameter • object

Set the delay times. If the delays are specified via communication object, then a starting value and the possible setting range is defined.

Extension delay (in minutes) (*when specified by object:* valid until first call)	1 ... 240
Minimum extension delay that can be set (in minutes) *(for specification by object)*	1 ... 240
Maximum extension delay that can be set (in minutes) *(for specification by object)*	1 ... 240; 40
Incrementally (in minutes) *(for specification by object)*	1 ... 10
Brief delay (in seconds) (*when specified by object:* valid until first call)	1 ... 3600; 10
Minimum short delay (in seconds) *(for specification by object)*	1 ... 3600
Maximum short delay (in seconds) *(for specification by object)*	1 ... 3600; 120
Increment (in seconds) *(for specification by object)*	1 ... 240
Retraction delay (in minutes) (*when specified by object:* valid until first call)	1 ... 240; 30
Minimum extension delay that can be set (in minutes) *(for specification by object)*	1 ... 240; 10
Maximum extension delay that can be set (in minutes) *(for specification by object)*	1 ... 240
Incrementally (in minutes) *(for specification by object)*	1 ... 10

Outdoor temperature block

Below a certain outdoor temperature, the shade is withdrawn.

Set whether an outdoor temperature block is to be used. The threshold value can also be set by "changeable per object".

Use	• No • Yes • Changeable per object

Then set the threshold value for the temperature block and the switching distance for the event that the value is exceeded.

Deactivate block for outdoor temperatures above	
Threshold value (in 0.1°C increments) (*if changeable:* until first call)	-200 ... 300; <u>50</u>
Switching distance (in 0.1°C)	-200 ... 300; <u>30</u>

When specifying the threshold value **by object** the minimum and maximum values that can be set and the increment for the change are also defined.

Minimum variable per object Threshold value (in 0.1°C increments)	-200 ... 300; <u>0</u>
Maximum variable per object Threshold value (in 0.1°C increments)	-200 ... 300; <u>200</u>
Increment for threshold value change (in 0.1°C)	1 ... 20; <u>5</u>

Define the value of the release object for the outdoor temperature block. Using the release object, the outdoor temperature block can be deactivated at short-notice.

Evaluation of the outdoor temperature - release object	<u>1 = activated | 0 = deactivated</u> 0 = activated | 1 = deactivated
value until first call	0 • <u>1</u>

If the outdoor temperature block is used, then, as a precaution, the block is activated, if over a period of 48 hours no change in the measured value has been recorded at the relevant temperature sensor.

Solar protection position and auto-guiding

Solar protection extends the shading automatically if
- the sun is coming from the set direction and
- the brightness of the set threshold value
- is exceeded over a period longer the extension delay time.

For the movement position "Solar protection" auto-guiding can be set. Settings for slats are only displayed if the shading for the façade has been defined as having slats (see *Façade safety*, page 181).

Without auto-guiding a fixed position is travelled to.

With a four step slat guiding concept, a defined movement position is travelled to and the slats are tilted in four steps according to the position of the sun.

For slat auto-guiding, the direction and slant of the façade are taken into account, and internally the angle of the slat so calculated that no direct light can shine through the slats.

For shadow edge tracking, a fixed slat position is set (only for shades with slats). For the movement position, the orientation and slant of the façade and the height of the

window are taken into consideration so that it can be defined how far the sun may shine into the room.

Shadow edge tracking and slat auto-guide are also possible in combination.

Before setting auto-guide, please read the instructions in chapter *Optimal usage of façade controller functions*, page 166

Solar protection position	• Without auto-guide • Slats in 4 stages • Shadow edge tracking • Slat auto-guide • Shadow edge tracking and slat auto-guide

Without auto-guiding a fixed position is travelled to.

Movement position (in %)	0 ... 100
Slat position (in %) *(only for window shades with slats)*	0 ... 100; 80

With the **four step slat guiding** the fixed movement position and the four slat angles are defined (only for shades with slats).

Movement position (in %)	0 ... 100
Slat position (in %) for sun height (in °)	
0° to 15°	0 ... 100
15° to 30°	0 ... 100; 80
30° to 45°	0 ... 100; 65
45° to 90°	0 ... 100; 50

For the **slat guiding** the fixed movement position and the characteristics of the façade and the slats are specified (only for shades with slats). The device calculates the ideal slat position, so that no direct light can enter through the slats, but such that, at all times, as much indirect light as possible lights up the room.

With the setting for the minimum change of angle for transmission of a movement command, the "increment" respectively the frequency of the angle correction can be adjusted. Hereby, the technical possibilities of the drive used must be taken into consideration. The minimum change of angle is taken into account in the device internal calculation, so that direct sunlight can be prevented, even for large steps.

The slat angle at 0% move command and at 100% move command must, during commissioning, be aligned to the pre-settings of the parameters, and, if necessary, corrected, so that the slat guide on the façade works properly. For this purpose, observe chapter *Slat position for horizontal slats*, page 170 respectively *Slat position for vertical slats*, page 172.

Movement position (in %)	0 ... 100
Orientation of the façade (North=0°, East=90°, South=180°, West=270°)	0 ... 360; 180
Inclination of the façade in ° (0° = no inclination)	-90 ... 90; 0
see *Orientation and inclination of the façade*, page 167	
Slat orientation	Horizontal • vertical
Slat width (in mm)	0 ... 1000; 80
Slat distance (in mm)	0 ... 1000; 75
see *Slat types and determination of width and spacing*, page 169	
Minimum change of angle for transmitting a new slat position	1 ... 90; 10
Slat angle (in °) after after slat move command 0%	0 ... 180; 90
Slat angle (in °) after after slat move command 100%	0 ... 180; 10
see *Slat position for horizontal slats*, page 170 respectively *Slat position for vertical slats*, page 172	

For the **shadow edge auto-guide** a fixed slat position is set (only for shades with slats). For the movement position the orientation and angle of the façade and the height of the windows (glass height) are specified. The device calculates the ideal position so that the specified maximum depth of penetration into the room for the sun, is not exceeded.

Using the setting for, from which shadow edge shift, in centimetres, a move command is to be transmitted, the frequency of the position correction can be adjusted. Hereby, the technical possibilities of the drive used must be taken into consideration.

See also chapter *Shadow edge tracking and slat tracking*, page 168.

Slat position (in %)	0 ... 100; 80
Orientation of the façade (North=0°, East=90°, South=180°, West=270°)	0 ... 360; 180
Inclination of the façade in ° (0° = no inclination)	-90 ... 90; 0
Window height in cm	0 ... 1000; 150
Maximum depth of penetration by the sun into the room in cm	10 ... 250; 50
From a shadow shift of cm auto-tracking is performed	1 ... 50; 10

Please observe: The slant of the façade and the angle set for the height of the sun should be compatible. Thus, if the façade is slanted forwards by 10°, then the sun only

needs to be considered up to a height of 80°. Enter this separately with the parameters the parameter for sun direction and height (see chapter *solar protection automation*, *Sun position*, page 190).

Intermediate position for the short retraction delay time

Solar protection automation moves to the "short delay" position if
- the shading has been extended by the solar protection automation and
- the brightness is then below the value (threshold value - switching distance)
- for longer than the short delay time.

For the movement position "short retraction delay" a movement position and a slat position can be set. Settings for slats are only displayed if the shading for the façade has been defined as having slats (see *Façade safety*, page 181).

Use movement position	No • Yes
Movement position (in %)	0 ... 100
Use slat position	No • Yes
Slat position (in %)	0 ... 100

Standard movement position

Solar protection automation is terminated and the standard position is approached.
- the sun is not coming from the set shading direction or
- the brightness is then below the value (threshold value - switching distance)
- for longer than the time (short delay + retraction delay time).

Move to position, if no automation with higher priority is being executed	
Movement position (in %)	0 ... 100
Slat position (in %) *(only for window shades with slats)*	0 ... 100

Settings for slats are only displayed if the shading for the façade has been defined as having slats (see *Façade safety*, page 181).

Status output façade

Information on the various possibilities for the status output can be found in chapter *Status output*, page 174. In principal the status output is a singular function, but, in compact form, possible for singular and for all façades possible. The texts for the output in compact form are defined in the general settings for the façade (see chapter *Status output*, page 174).

Set which value in the status release object **for this façade** means active respectively in active.

Evaluation of the façade Status release object	1 = activated | 0 = deactivated 0 = activated | 1 = deactivated
value until first call	0 • 1

5.26.3. Computer

Activate the multi-functional computer, with which the input data can be changed by calculation, querying a condition or converting the data point type. The menus for the further setting of the computer are then displayed.

Computer 1	No • Yes
Computer...	No • Yes
Computer 8	No • Yes

5.26.4. Computers 1-8

Set, in which cases input values received are to be kept per object. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Maintain the	
input values received via communication objects	• never • after power supply restoration • after power supply restoration and programming

Select the function set the input mode and starting values for input 1 and input 2.

Function (I = Input)	• Prerequisite: E1 = E2 • Prerequisite: E1 > E2 • Prerequisite: E1 >= E2 • Prerequisite: E1 < E2 • Prerequisite: E1 <= E2 • Prerequisite: E1 - E2 >= E3 • Prerequisite: E2 - E1 >= E3 • Prerequisite: E1 - E2 amount >= E3 • Calculation: E1 + E2 • Calculation: E1 - E2 • Calculation: E2 - E1 • Calculation: E1 - E2 Amount • Calculation: Output 1 = E1 × X + Y | Output 2 = E2 × X + Y | • Transformation: General
Tolerance for comparison *(in the case of prerequisite E1 = E2)*	0 ... 4,294,967,295

Input type	[Selection options depending on the function] • 1 bit • 1 byte (0...255) • 1 byte (0%...100%) • 1 byte (0°...360°) • 2 byte counter without math. symbol • 2 byte counter with math. symbol • 2 byte floating point • 4 byte counter without math. symbol • 4 byte counter with math. symbol • 4 byte floating point
Starting value E1 / E2 / E3	[Input range depending on the type of input]

Prerequisites

When querying the prerequisites set the output type and output values at different statuses:

Output type	• 1 bit • 1 byte (0...255) • 1 byte (0%...100%) • 1 byte (0°...360°) • 2 byte counter without math. symbol • 2 byte counter with math. symbol • 2 byte floating point • 4 byte counter without math. symbol • 4 byte counter with math. symbol • 4 byte floating point
Output value *(if applicable output value A1 / A2)*	
if the condition is met	0 [Input range depending on the type of output]
if the condition is not met	0 [Input range depending on the type of output]
if the monitoring time period is exceeded	0 [Input range depending on the type of output]
if blocked	0 [Input range depending on the type of output]

Set the output send pattern.

Output sends	• on change • on change and after reset • on change and periodically • when receiving an input object • when receiving an input object and periodically
Type of change *(is only sent if "on change" is selected)*	• on each change • on change to condition met • on change to condition not met
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s

Set the text to be displayed for conditions met / not met.

Text if the condition is met	[Free text max. 14 chars.]
Text if the condition is not met	[Free text max. 14 chars.]

If applicable set the send delays.

Send delay in the event of change to the condition is met	none • 1 s • ... • 2 h
Send delay in the event of change to the condition is not met	none • 1 s • ... • 2 h

Calculations and transformation

For calculations and transformations set the output values to the various conditions:

Output value (if applicable A1 / A2)	
if the monitoring time period is exceeded	0 [Input range depending on the type of output]
if blocked	0 [Input range depending on the type of output]

Set the output send pattern.

Output sends	• on change • on change and after reset • on change and periodically • when receiving an input object • when receiving an input object and periodically
on change of *(only if calculations are transmitted for changes)*	1 ... [Input range depending on the type of input]
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s

For **Calculations of the form output 1 = E1 × X + Y | output 2 = E2 × X +Y** define the variables X and Y. The variables can have a positive or negative sign, 9 digits before and 9 digits after the decimal point.

Formula for output A1: A1 = E1 × X + Y	
X	1.00 [free input]
Y	0.00 [free input]
Formula for output A2: A2 = E2 × X + Y	
X	1.00 [free input]
Y	0.00 [free input]

Further settings for all formulas

If necessary, activate the input monitoring. Set which inputs are to be monitored, at which intervals the inputs are to be monitored and what value the "monitoring status" should have, if the monitoring period is exceeded without feedback.

Use input monitoring	No • Yes
Monitoring of	• E1 • E2 • E3 • E1 and E2 • E1 and E3 • E2 and E3 • E1 and E2 and E3 [depending on the function]
Monitoring period	5 s • ... • 2 h; 1 min
Value of the object "monitoring status" if period is exceeded	0 • 1

If necessary, activate the computer block and set what a 1 or 0 at the block entry means and what happens in the event of a block.

Use block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Value before first call	0 • 1
Output pattern On block	• do not send anything • send value
On release	• as send pattern [see above] • send current value immediately

5.27. Weekly timer

In the weekly timer in the device 24 periods can be defined. These periods are, for example, used for the internal automatic function timed opening and timed closure.

The respective period objects can be configured as inputs or outputs, i.e. send to the bus (timer internal, use internal and for other bus members) or be switched from there

(timer function via an external device). If several devices are used in the system, the timer settings may be done on one device that sends the period objects as output. The other devices take over the timer-command (input), whereby a better synchronisation is achieved.

Activate the required periods for the weekly timer. The menus for the further setting of the computer are then loaded.

Use period 1	No • Yes
Use ... period	No • Yes
Use period 24	No • Yes

5.27.1. Weekly timer period 1-24

Set whether the period can be set (period object is the output and is sent to the bus) or if the period is received externally via the bus (period object is the input).

Period	• can be set (period object is output) • can be switched (time period object is output)

Period can be set (time period object is output)

Set whether the switching times are set per object and in which cases the switching times received are to be retained. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Use objects for switching times	No • Yes
The threshold values and delays received by the communication object	
Switching data should	• not be retained • be retained after power restoration • be retained after power restoration and programming

Set the switching on and off times and the days of the week for this period. If, for example, 15:35 is set as the switch-off time, the output switches off on the change from 15:35 to 15:36.

Switch on time (hours)	0 ... 23
Switch on time (minutes)	0 ... 59
Switch-off time (hours)	0 ... 23
Switch-off time (minutes)	0 ... 59
Period switches to	
Monday ... Sunday	No • Yes

Set the send pattern for the week clock switch output and the value of the output.

Switching output sends	• never • on change • on change to active • on change to inactive • on change and periodically • on change to active and periodically • on change to inactive and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s
8-bit output value if Period active	0 ... 255
8-bit output value if Period not active	0 ... 255

Period that can be switched externally (time period is the input)

The time switches are taken over from an external timer switch. Set at which value the period is to be active and define the object value before the first communication.

Period is active	• at object value = 1 • at object value = 0
Object value prior to initial communication	0 • 1

5.28. Calendar timer

In the calendar timer in the device, four periods with two switching sequences can be defined. These periods are, for example, used for the internal automatic function timed opening and timed closure (see chapter *Time open*, page 185 and *Time and night closure*, page 186).

Activate the required periods for the calendar timer. The menus for the further setting of the computer are then loaded.

Use period 1	No • Yes
Use ... period	No • Yes
Use period 4	No • Yes

5.28.1. Calendar clock Period 1-4

Set whether the switching date and the switching time are set per object and in which cases the switching dates and times received are to be retained. Please note that the setting "After power restoration and programming" should not be used for the initial start-up, as the factory settings are always used until the first call (setting via objects is ignored).

Use objects for switching times	No • Yes
Maintain the	

switching data and times received via communication objects	• never • after power restoration • after power restoration and programming
.	

Define the period

From:	
Month	January ... December
Day	1 ... 29 / 1 ... 30 / 1 ... 31 (according to month)
Up to and including:	
Month	January ... December
Day	1 ... 29 / 1 ... 30 / 1 ... 31 (according to month)

Sequence 1 / 2

Define the switching times.

Switch on time (hours)	0 ... 23
Switch on time (minutes)	0 ... 59
Switch-off time (hours)	0 ... 23
Switch-off time (minutes)	0 ... 59
Switching output sends	• never • on change • on change to active • on change to inactive • on change and periodically • on change to active and periodically • on change to inactive and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s

Set the send pattern for the switch sequence and the value of the 8-bit output.

Switching output sends	• never • on change • on change to active • on change to inactive • on change and periodically • on change to active and periodically • on change to inactive and periodically
Send cycle *(if sent periodically)*	5 s ... 2 h; 10 s

8-bit output value if Period active	0 ... 255
8-bit output value if Period not active	0 ... 255

5.29. Logic

The device has 16 logic inputs, eight AND and eight OR logic gates.

Activate the logic inputs and assign object values up to first call.

Use logic inputs	Yes • No
Object value prior to first call for:	
- Logic input 1	0 • 1
- Logic input ...	0 • 1
- Logic input 16	0 • 1

Activate the required logic outputs.

AND logic

AND logic 1	not active • active
AND logic ...	not active • active
AND logic 8	not active • active

OR logic

OR logic 1	not active • active
OR logic ...	not active • active
OR logic 8	not active • active

5.29.1. AND logic 1-8 and OR logic outputs 1-8

The same setting options are available for AND and OR logic.

Each logic output may transmit one 1 bit or two 8 bit objects. Determine what the out put should send if logic = 1 and = 0.

1. / 2. / 3. / 4. Input	• do not use - Logic inputs 1...16 - Logic inputs 1...16 inverted • all switching events that the device provides (see *Connection inputs of the AND/OR logic*)
Output type	• a 1-Bit-object • two 8-bit objects

If the **output type is a 1-bit object**, set the output values for the various conditions.

Output value if logic = 1	1 • 0
Output value if logic = 0	1 • 0
Output value If block is active	1 • 0
Output value if monitoring period is exceeded	1 • 0

If the **output type is two 8-bit objects**, set the type of object and the output values for the various conditions.

Object type	• Value (0…255) • Percent (0…100%) • Angle (0…360°) • Scene call-up (0…127)
Output value object A if logic = 1	0 … 255 / 100% / 360° / 127; 1
Output value object B if logic = 1	0 … 255 / 100% / 360° / 127; 1
Output value object A if logic = 0	0 … 255 / 100% / 360° / 127; 0
Output value object B if logic = 0	0 … 255 / 100% / 360° / 127; 0
Output value object A if block is active	0 … 255 / 100% / 360° / 127; 0
Output value object B if block is active	0 … 255 / 100% / 360° / 127; 0
Output value object A if monitoring period is exceeded	0 … 255 / 100% / 360° / 127; 0
Output value object B if monitoring period is exceeded	0 … 255 / 100% / 360° / 127; 0

Set the output send pattern.

Send pattern	• on change of logic • on change of logic to 1 • on change of logic to 0 • on change of logic and periodically • on change of logic to 1 and periodically • on change of logic to 0 and periodically • on change of logic+object receipt • on change of logic+object receipt and periodically
Send cycle *(if sent periodically)*	5 s • 10 s • ... • 2 h

Block

If necessary, activate the block for the logic output and set what a 1 or 0 at the block input means and what happens in the event of a block.

Use block	No • Yes
Analysis of the blocking object	• At value 1: block | At value 0: release • At value 0: block | At value 1: release
Blocking object value before first call	0 • 1
Output pattern On block	• Do not send message • Transmit block value [see above, Output value if blocking active]
On release (with 2 seconds release delay)	[send value for current logic status]

Monitoring

If necessary, activate the input monitoring. Set which inputs are to be monitored, at which intervals the inputs are to be monitored and what value the "monitoring status" should have, if the monitoring period is exceeded without a feedback being given.

Use input monitoring	No • Yes
Input monitoring	• 1 • 2 • 3 • 4 • 1 + 2 • 1 + 3 • 1 + 4 • 2 + 3 • 2 + 4 • 3 + 4 • 1 + 2 + 3 • 1 + 2 + 4 • 1 + 3 + 4 • 2 + 3 + 4 • 1 + 2 + 3 + 4
Monitoring period	5 s • ... • 2 h; 1 min
Output behaviour on exceeding the monitoring time	• Do not send message • Send value exceeding [= value of the parameter "monitoring period"]

5.29.2.AND logic connection inputs

do not use
Logic input 1
Logic input 1 inverted
Logic input 2
Logic input 2 inverted
Logic input 3
Logic input 3 inverted
Logic input 4
Logic input 4 inverted
Logic input 5
Logic input 5 inverted
Logic input 6
Logic input 6 inverted
Logic input 7
Logic input 7 inverted

Logic input 8
Logic input 8 inverted
Logic input 9
Logic input 9 inverted
Logic input 10
Logic input 10 inverted
Logic input 11
Logic input 11 inverted
Logic input 12
Logic input 12 inverted
Logic input 13
Logic input 13 inverted
Logic input 14
Logic input 14 inverted
Logic input 15
Logic input 15 inverted
Logic input 16
Logic input 16 inverted
Temperature Sensor Malfunction ON
Temperature sensor malfunction OFF
Pressure sensor malfunction ON
Pressure sensor malfunction OFF
GPS Malfunction ON
GPS malfunction OFF
Wind Sensor malfunction ON
Wind sensor malfunction OFF
Switching output rain
Switching output rain inverted
Switching output rain 2
Switching output rain 2 inverted
Switching output night
Switching output inverted
Frost alarm active
Frost alarm inactive
Switching output 1 Temperature
Switching output 1 Temperature inverted
Switching output 2 Temperature
Switching output 2 Temperature inverted
Switching output 3 Temperature
Switching output 3 Temperature inverted
Switching output 4 Temperature
Switching output 4 Temperature inverted
Brightness sensor switching output 1
Brightness sensor switching output 1 inverted
Brightness sensor switching output 2
Brightness sensor switching output 2 inverted
Brightness sensor switching output 3
Brightness sensor switching output 3 inverted

Brightness sensor switching output 4
Brightness sensor switching output 4 inverted
Switching output 1 Twilight
Switching output 1 Twilight inverted
Switching output 2 Twilight
Switching output 2 Twilight inverted
Switching output 3 Twilight
Switching output 3 Twilight inverted
Switching output 4 Twilight
Switching output 4 Twilight inverted
Switching output 1 Pressure
Switching output 1 Pressure inverted
Switching output 2 Pressure
Switching output 2 Pressure inverted
Switching output 3 Pressure
Switching output 3 Pressure inverted
Switching output 4 Pressure
Switching output 4 Pressure inverted
Wind switching output 1
Wind switching output 1 inverted
Wind switching output 2
Wind switching output 2 inverted
Wind switching output 3
Wind switching output 3 inverted
Wind switching output 4
Wind switching output 4 inverted
Weekly timer period 1 active
Weekly timer period 1 inactive
Weekly timer period 2 active
Weekly timer period 2 inactive
Weekly timer period 3 active
Weekly timer period 3 inactive
Weekly timer period 4 active
Weekly timer period 4 inactive
Weekly timer period 5 active
Weekly timer period 5 inactive
Weekly timer period 6 active
Weekly timer period 6 inactive
Weekly timer period 7 active
Weekly timer period 7 inactive
Weekly timer period 8 active
Weekly timer period 8 inactive
Weekly timer period 9 active
Weekly timer period 9 inactive
Weekly timer period 10 active
Weekly timer period 10 inactive
Weekly timer period 11 active
Weekly timer period 11 inactive

Weekly timer period 12 active
Weekly timer period 12 inactive
Weekly timer period 13 active
Weekly timer period 13 inactive
Weekly timer period 14 active
Weekly timer period 14 inactive
Weekly timer period 15 active
Weekly timer period 15 inactive
Weekly timer period 16 active
Weekly timer period 16 inactive
Weekly timer period 17 active
Weekly timer period 17 inactive
Weekly timer period 18 active
Weekly timer period 18 inactive
Weekly timer period 19 active
Weekly timer period 19 inactive
Weekly timer period 20 active
Weekly timer period 20 inactive
Weekly timer period 21 active
Weekly timer period 21 inactive
Weekly timer period 22 active
Weekly timer period 22 inactive
Weekly timer period 23 active
Weekly timer period 23 inactive
Weekly timer period 24 active
Weekly timer period 24 inactive
Calendar timer period 1 sequence 1 active
Calendar timer period 1 sequence 1 inactive
Calendar timer period 1 sequence 2 active
Calendar timer period 1 sequence 2 inactive
Calendar timer period 2 sequence 1 active
Calendar timer period 2 sequence 1 inactive
Calendar timer period 2 sequence 2 active
Calendar timer period 2 sequence 2 inactive
Calendar timer period 3 sequence 1 active
Calendar timer period 3 sequence 1 inactive
Calendar timer period 3 sequence 2 active
Calendar timer period 3 sequence 2 inactive
Calendar timer period 4 sequence 1 active
Calendar timer period 4 sequence 1 inactive
Calendar timer period 4 sequence 2 active
Calendar timer period 4 sequence 2 inactive

5.29.3. Connection inputs of the OR logic

The OR logic connection inputs correspond to those of the AND logic. In addition, the following inputs are available for the OR logic:

AND logic output 1
AND logic output 1 inverted
AND logic output 2
AND logic output 2 inverted
AND logic output 3
AND logic output 3 inverted
AND logic output 4
AND logic output 4 inverted
AND logic output 5
AND logic output 5 inverted
AND logic output 6
AND logic output 6 inverted
AND logic output 7
AND logic output 7 inverted
AND logic output 8
AND logic output 8 inverted

Questions about the product?

You can reach the technical service of Elsner Elektronik under
Tel. +49 (0) 70 33 / 30 945-250 or
service@elsner-elektronik.de

We need the following information to process your service request:

- Type of appliance (model name or item number)
- Description of the problem
- Serial number or software version
- Source of supply (dealer/installer who bought the device from Elsner Elektronik)

For questions about KNX functions:

- Version of the device application
- ETS version used for the project