

Instructions WHX facade wind sensor

The WHX facade wind sensor measures the weather data, wind speed and brightness locally on the facade. This sensor is used in combination with a sun protection or weather central unit, which evaluates the measurement data of the WHX facade wind sensor and sends a corresponding command to the blind actuators.

The specific detection can be used, for example, to control seating area awnings or to divide wind measurement into segments on large facades.

It should be noted that winds on a facade often appear swirling or cylindrical or assume other complex manifestations. Wind sensors are usually installed on the facade in addition to a central wind sensor on the roof. The Facade wind sensor can also be used to localise shadow areas if the calculation is not performed in a sun protection central unit (e.g. in the FlexModule FMX).

Tab Sensory technology

Real values parameter group

Parameter Name	Selection	Description
Send wind speed	<ul style="list-style-type: none"> ▪ <input checked="" type="checkbox"/> ▪ <input type="checkbox"/> 	The "wind speed" real value is sent to the KNX bus.
Send brightness	<ul style="list-style-type: none"> ▪ <input checked="" type="checkbox"/> ▪ <input type="checkbox"/> 	The "brightness" real value is sent to the KNX bus.

Sending behaviour parameter group

Parameter Name	Selection	Description
Send real value	<ul style="list-style-type: none"> ▪ For minor change ▪ For major change 	Send for minor change : <ul style="list-style-type: none"> ▪ Wind speed increasing: 0.5 m/s (1.8 km/h) ▪ Wind speed decreasing: 2 m/s (7.2 km/h) ▪ Brightness: 2 klx Send for major change : <ul style="list-style-type: none"> ▪ Wind speed increasing: 1 m/s (3.6 km/h) ▪ Wind speed decreasing: 3 m/s (10.8 km/h) ▪ Brightness: 5 klx
Send real value cyclically	<ul style="list-style-type: none"> ▪ Off ▪ 30 s ▪ 1 min ▪ 2 mins ▪ 3 mins ▪ 5 mins ▪ 10 mins ▪ 15 mins ▪ 30 mins ▪ 1 hr ▪ 2 hrs ▪ 4 hrs 	The sensor values are sent cyclically based on the set time.

Display parameter group

Parameter Name	Selection	Description
Switch off Wind sensor LED after 5 mins	<ul style="list-style-type: none"> ▪ <input checked="" type="checkbox"/> ▪ <input type="checkbox"/> 	<p>The Wind sensor LED is switched off five minutes after restarting the device or after switching on the supply voltage.</p> <p>The LED can be switched on or off at any time via the group object.</p>

Group Objects

GO Group object

DPT Data Point Type according to KNX standard

Type Data type (bit length of the GO)

C R W T U preset [Objekt-Flags](#)

(C - W - -) means, for example: C and W are set, R, T and U are not

Function	Name	Description	Type (DPT) (Flags)
Wind speed	Sensor output	Wind speed, typically 0 ... 30 m/s If the wind value is invalid or incorrect, the value 300 km/h (or 88.88 m/s) is output.	2 bytes (9.005) (C R - T-)
Brightness	Sensor output	Brightness, typically 0 ... 100 kLux	2 bytes (9.004) (C R - T-)
All sensor values	Griesser sensor	<p>The sensor values are sent via the "GriesserSensor" object.</p> <p>Sensor type (byte 4, most significant): 10_{hex}: Brightness 50_{hex}: Wind speed</p> <p>Sensor value (bytes 2-3) 2-byte value coding according to DPT for each sensor type</p> <p>Validity (byte 1, least significant): 01_{hex}: sensor value is invalid 00_{hex}: sensor value is valid</p>	4 bytes (none) (C R - T-)
On / Off	Wind sensor LED	<p>Blinking display on the WHX Facade wind sensor</p> <p>0 = switch off Wind display 1 = switch on Wind display</p> <p>The display blinks slowly when the wind speed is low and fast when the wind speed is high.</p>	1 bit (1.001) (C R W - U)
Yes / No	Device malfunction	<p>0 = No malfunction, everything is OK 1 = Sensor measurement malfunction. The device must be checked, as proper functioning can no longer be guaranteed.</p>	1 bit (1.011) (C R - T -)