Figure 1: Front view of touch panel

1. Description

The KNX Touch 10" is adapted primarily for operation and visualisation in façade applications. Façade automation is carried out depending on the number of different façade controls required on the building.

The façade calculation is carried out in an external KNX device such as the KNX-GPS-24VDC weather station (art. no. 19416581, 8 façades) or

KNX shading control unit BZ-24 (art. no. 19416030, 24 façades).

2. Functions

Home page with date and time display. Local weather data, outside temperature, brightness,
precipitation, wind speed in m/s or alternatively km/h, air pressure (optional).
Control, display and parameter settings for up to 32 façades. Settings for each façade regarding shading: solar threshold value in lux, extension delay, retraction delay and actuation of shading.
Indoor temperature threshold, outside temperature threshold in °C and actuation for each threshold.
Wind threshold value in m/s or alternatively km/h.
Global twilight limit value in lux for night closing with activation per façade.
8-channel weekly timer with activation per façade, 4-channel calendar timer with activation per façade, one page for special functions, for a maximum of 12 functions such as switching, dimming, RGB control, blind actuation, measured values.

3. Notes

3.1 Safety instructions

This appliance must only be used for its intended purpose. Only a qualified electrician may carry out work with 230V mains voltage. Ensure that the nearby surroundings are isolated from the power supply and secured against being connected again when working on the units or the electrical installation. The control units must be out of reach of children.
Do not operate the unit – or take it out of operation – if there is a likelihood that it cannot be operated safely. This likelihood is justified if:

- The housing or the supply lines are damaged.
- The unit no longer operates as intended.

The user is responsible for compliance with the installation regulations.

3.2 Liability/warranty provisions

In cases of failure to observe the product information given in this manual, use of the unit for other than the intended purpose or use not in accordance with the intended purpose, the manufacturer will not honour the warranty for damage to the product. Liability for consequential damages is also excluded.
The warranty of a 2-year guarantee from the date of invoice covers replacement or repair of free of charge of parts of the unit that have become defective as a result of material or manufacturing faults. The repair work will be carried out by us at our premises or externally with charges applied for time and expenses. Additional claims and compensation for consequential damages are excluded.
Furthermore, attention is drawn to the General Terms and Conditions of Business (www.storen.ch).

3.3 Installation and connection

This unit is suitable for operation in dry indoor spaces. It should be connected as shown in the connection diagram. Incorrect connection can lead to damage to the unit or to connected devices.
Accessibility must be guaranteed at all times for maintenance purposes.

3.4 Putting the system into operation

Once assembly is complete, the unit can be put into operation. Ensure beforehand that the actuated drives are functioning correctly.
When the bus voltage is first applied, the unit enters an initialisation phase for a few seconds. During this time, no information can be received via the bus.

3.5 Functioning and maintenance

The unit must be checked regularly for proper functioning.
There are no serviceable parts inside the unit.

4. Troubleshooting

If a fault occurs, check the following points.

- Systematically check for correct wiring.
- Check whether the connecting wires are cleanly bound to the terminals (with no insulation trapped).
- Response in the KNX bus

5. Disposal

When the unit is to be disposed of, this must involve disposal or recycling in accordance with statutory regulations. Do not dispose of the unit with household waste.

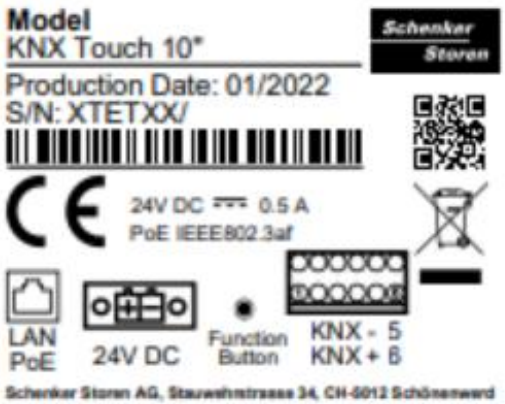
6. Technical data

Housing	Plastic
Colour	black
Installation	Touch panel for panel mounting
Protection type	IP 54 front, IP20 rear
Housing dimensions	L x W x D 282 x 185 x 35.5 mm
Weight	1.0 kg
Ventilation	Fanless
Display	10" LED TFT, 1024 x 600, 450 cd/m^2
Surface	Resistant to chemicals and solvents (acetone, methyl chloride, ethanol, isopropanol, hexane, turpentine, lead-free petrol, engine oil, diesel, gear oil and antifreeze)
Touch	Capacitive multi touch (PCT)
Processor	ARM Cortex-M4/M0 MCU, LPC 4357
Interfaces	Ethernet 10/100Mbps, USB-A(without function)
Ambient temperature Storage, transport	0 - 70°C
Ambient temperature Operation	0 - 50°C
Ambient humidity	10 - 90% RH, non-condensing
Medium	KNX-TP256
Configuration mode	S mode
Bus current	10 mA
Data output	KNX +/- bus terminal
BCU type	Own microcontroller
PEI type	0
Group addresses	1000
Allocations	1000
Communication objects	1742
Operating voltage	24V DC or PoE IEEE 802.3af class 0
Power consumption	Operation, full load, maximum display brightness 4,5W Operation, idle loop, maximum display brightness 4,3W Operation, display off 2W

7. Construction

Figure 2: Front view of touch panel with glass pane throughout.

Figure 3: Rear of unit with type plate



8. Dimensions

Figure 4: Slim design for control cabinet mounting

Figure 5: Cut-out, dimensions and all data in mm

9. Bus voltage connection diagram

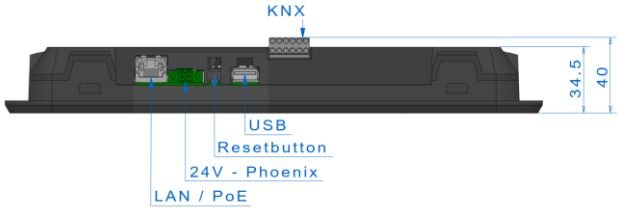
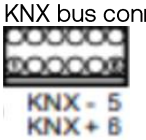


Figure 6: Connection diagram

Connection to 24 V DC, alternatively via LAN/ PoE

KNX bus connection, terminal 5-, 6+ (30 V DC)



10. Scope of delivery

1 x 2-pole connector plug 24 V DC
1 x 6-pole connection socket KNX-BUS

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