Smart Panel 5.1 KNX
Art. No. : SP 5.1 KNX

Operating instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect device before working on it. At the same time, take into account all circuit breakers that supply dangerous voltage to the device.

Do not operate the device with sharp or pointed objects. The touch-sensitive surface could be damaged.

Do not use any sharp objects, acids or organic solvents for cleaning. Device can be damaged.

These instructions are an integral part of the product, and must remain with the end customer.

2 Device components

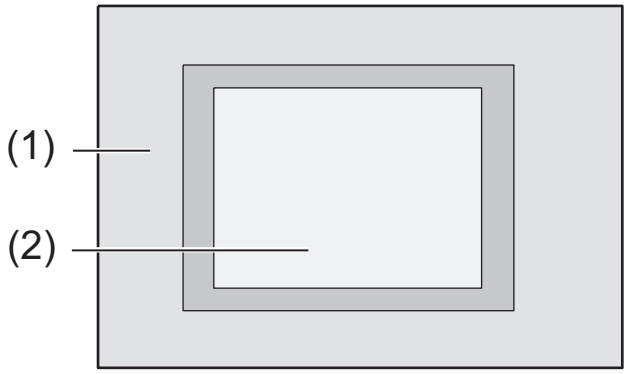

Figure 1: Front view with frame

(1) Frame
(2) Touch screen surface

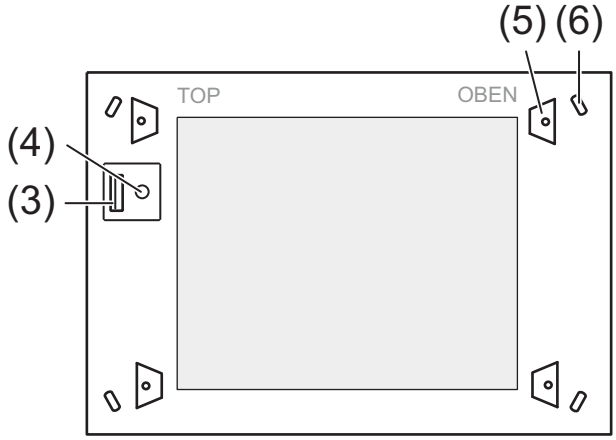

Figure 2: Front view without frame

(3) USB 2.0 connection

(4) Reset button for restart
(5) 4 Locks for Design frame
(6) Openings for screws to fasten the device

3 Function

System information

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The planning, installation and commissioning of the device are performed using external configuration software. The latest versions of the software and the technical descriptions are available on our website.

Intended use

- Operation and visualisation of system statuses and information on building automation
- Flush-mounted fitting indoors

Product characteristics

- Illuminated graphic colour screen TFT, 640x480 pixels, 262,000 colours
- Touchscreen
- KNX Interface
- Interfaces – accessible from front: 1x USB 2.0
- Interfaces – accessible from behind: Ethernet
- Graphical user interface for visualisation and operation of KNX devices
- Predefined graphical user interface
- Free graphical user interface
- KNX special functions, e.g. scenes, forced position, timer, presence simulation
- Fast access to pages and functions
- Remote access (remote function)
- Acoustic signal encoder, configurable

i The device uses various kinds of open source operating software. The technical documentation contains details as well as the necessary licences.

4 Operation

Touch-sensitive surface

The display screen features a touch-sensitive surface, the so-called touchscreen. The device is operated by touching the screen surface with a finger or a special touchscreen stylus (not included in the scope of delivery).

i Do not operate the touchscreen with sharp or pointed objects.

Cleaning the touchscreen

The touchscreen requires regular cleaning in order to guarantee the optimum touch sensitivity. Keep the screen free of foreign bodies and dust.

- Set application to "Cleaning function".
- Clean the touchscreen carefully using a soft, lint-free cloth. If needed, moisten the cleaning cloth slightly.

i Do not use sharp cleaning agents, acids or organic solvents.

i Keep moisture from penetrating into the device. Do not spray the cleaning agent directly onto the screen surface.

i Do not use sharp objects for cleaning.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection

DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before working on the device, disconnect all the corresponding miniature circuit breakers. Cover up live parts in the working environment.

Mounting and connecting the device

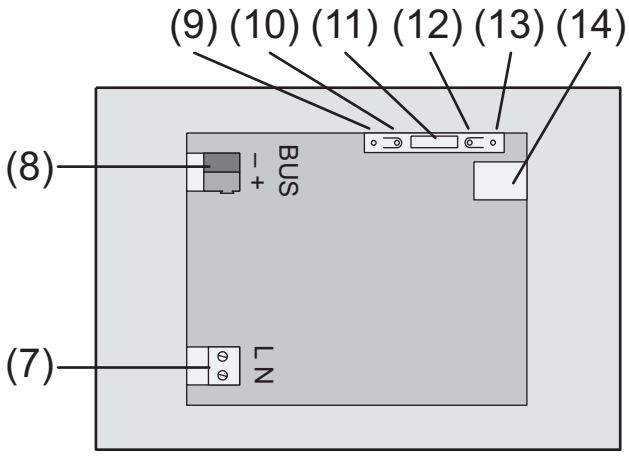

Figure 3: Rear side - Connections

(7) Mains voltage connection
(8) KNX connection
(9) Programming LED
(10) Programming button
(11) Service interface
(12) Reset button for restart
(13) LEDs for Ethernet connection (link and activity status)
(14) Ethernet connection

i Recommendation: Install at eye-level, for optimal reading.

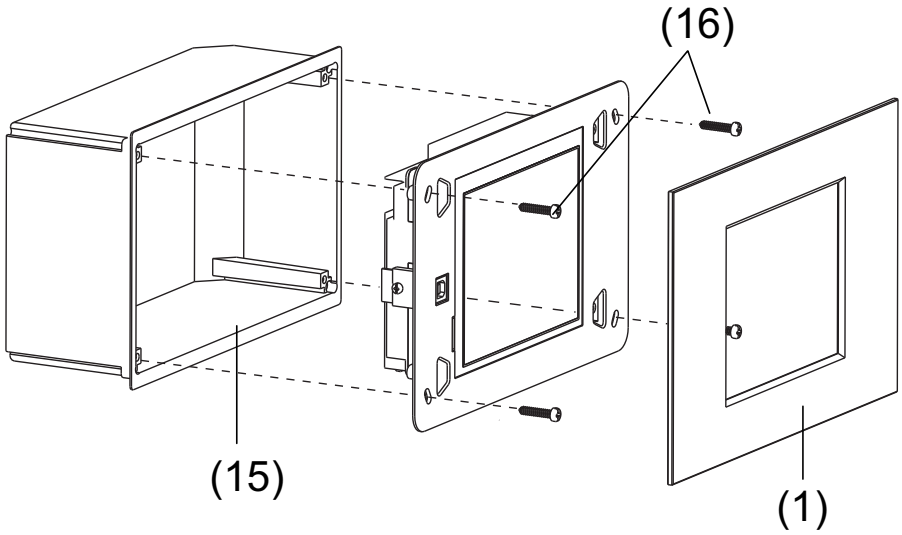

Figure 4: Installation in panel-mounted housing

- Install panel-mounted housing in the correct position in the wall.
- Pull the connecting cables through the designated bushings.

DANGER!

Electrical shock when live parts are touched. The mains voltage and low voltage are located in a shared appliance box. If there is an error, other connected components may carry mains voltage.

Electrical shocks can be fatal.

Always secure the mains voltage with the enclosed tube.

Run the cables so that low voltage wires are securely protected against mains voltage.

- Strip the mains voltage cable to the length of the enclosed tube.
- Pull the supplied tube over the stripped mains voltage wires **L** and **N**.
- Connect the mains voltage **L** and **N** to terminal (7).
- Connect the KNX bus line to terminal (8).
- Connect Ethernet cable to the Ethernet connection (14).
- Install device in panel-mounted housing (15). Observe the labelling **OBEN TOP**. Use the screws (16) supplied.
- Remove protective film from the touchscreen surface (2).
- Attach and press on the design frame (1) in the correct position.

Removing the Design frame

- Remove the design frame from the device on both sides with your fingers. To prevent damage to the frame, do not use any tools.

Restarting the device

The device can be restarted without voltage interruption by using the reset buttons.

i Data that was not saved beforehand could be lost (e.g. data of the datalogger).

- Briefly press the reset button on the front side (4) or rear side (12) of the device.
  The device is restarted after approx. 1 minute.

5.2 Commissioning

Load physical address

- Press the programming button (10).

The programming LED (9) lights up.

- Assign physical address.
  The programming LED goes out.

Loading the application software

i The project design and commissioning are performed using external project design and commissioning software.

i Preset IP address at delivery: 192.168.178.113

- Establish connection to the commissioning PC via IP connection.
- Download configuration data with the commissioning software.

- or -

Configuration data is saved on the USB stick.

- Insert USB stick in the corresponding socket (3). In KNX user interface, select the settings icon ☼ and then the "Import" entry. Select disk drive and path and open the file with the configuration data.

6 Appendix

6.1 Technical data

Supply	
Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Current consumption	max. 100 mA
Fine-wire fuse	Littelfuse/Wickmann 372 1160 T 1.6 L 250
Power consumption	approx. 2.5 W (Display off)
Power consumption	max. 11.5 W
Power consumption type	4.5 W (40% brightness)
Ambient conditions	
Ambient temperature	0 ... +40 °C
Storage/transport temperature	-10 ... +70 °C
Relative humidity	15 ... 85 % (No moisture condensation)
Protection class	II
Display	
Type	TFT 15.5 cm [5.7"] VGA
Resolution	640×480 pixels
Number of colours	262,000
Observation angle horizontal	± 70 °
Observation angle vertical	± 60 °
Touchscreen	resistive
USB	
USB version	1.1/2.0
Connection	1× type A
Network	
Type	10/100/1000 MBit/s Ethernet
Connection	RJ45-socket 8/4-pin
Dimensions	
Dimensions W×H×D	approx. 220x140x48 mm (without design frame)
Dimensions screen W×H	approx. 115 x 86,5 mm
KNX medium	TP
Commissioning mode	S-mode
Rated voltage KNX	DC 21 ... 32 V SELV
Power consumption KNX	typical 150 mW
Connection mode KNX	Standard terminal

6.2 Accessories

Flush-mounted recessed box	Art. No. EBG 24

Frame for Smart Panel 5..	Art. No. .. 781 ..
Frame for Smart Panel 5..	Art. No. R 5 .. E

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the device with a description of the defect to our central customer service office.

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