

Smart Control
Art.-No.: SC 1000 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.

Fire hazard! Operation exclusively with the power supplies listed under accessories

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

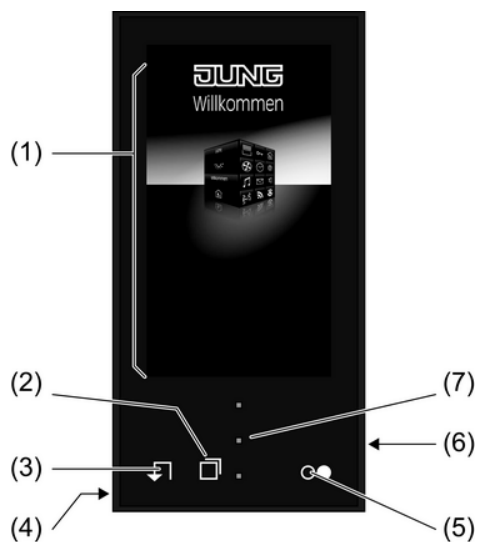


Figure 1: Front view

- (1) LCD screen
- (2) □ "Scroll" button
- (3) ↴ "Return" button to the start page
- (4) Internal loudspeaker
- (5) Master-button ○●
- (6) Slot for micro SD card: For future expansions
- (7) Brightness sensor

3 Function

Intended use

- Operating loads and displaying the status of systems and information e.g. light switching, dimming, controlling blinds/shutters, temperature and consumption values etc.
- Operation with power supply (see accessories)
- Installation indoors in flush-mounted appliance box according to DIN 49073.

Product characteristics

- Illuminated programmable graphic colour screen TFT, 800x480 pixels, 16.7 million colours, WVGA
- Vertical installation flush with the wall
- Capacitive touchscreen, operation via touch directly on the glass surface
- Integrated card reader for micro SD cards
- Integrated loudspeaker
- External loudspeaker module connectable (accessory)
- Insert with appropriate communication module
- External pushbutton extension module connectable (via communication module; accessory)
- Operating functions switching, dimming, controlling blinds, valuator, calling up moods, etc.
- Integrated room temperature sensor
- Integrated brightness sensor
- Room temperature control with setpoint value specification
- Display of room temperature, setpoint temperature and outdoor temperature, time and weekday etc.

4 Operation

Touch sensitive surface

The device 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.

Graphical user interface

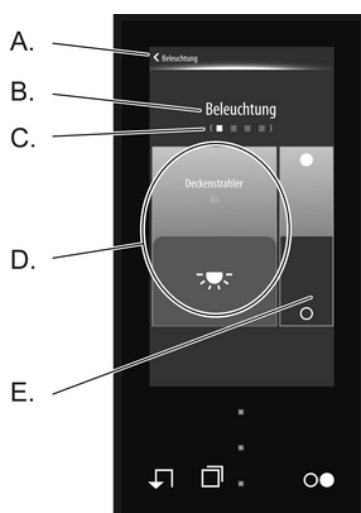



Figure 2: Screen areas with navigation and operating elements


- A. Header: Display of date, indoor or outdoor temperature, or navigation to the previous page; Save changes or cancel
- B. Title line: Time or name of the current page or function (optional)
- C. Navigation bar: Appears if the user can switch between different operating elements within a layer and displays the position of this layer
- D. Operating elements: Directly select or activate the function to be operated
- E. Operating bar: Depending on the type of function, it displays operating elements for switching, dimming, controlling shutters or blinds etc.

The display and operating elements are controlled via a graphic user interface. A clear, intuitive menu structure divided into several layers is used for guidance.

The main menu level contains up to four pages:

- Start page
- Favourite page (optional)
- Room page
- Function page

To change between the individual pages within a menu level, either press the "Scroll" button  (2) or just rub your finger over the glass surface. The subordinate menus Room operation, Function operation and System settings are accessed by pressing an entry within the main menu level.

The  (3) button always returns straight back to the main menu level.

Rocker operation and button operation







A function can be configured as rocker control or button control.

- With rocker control, there are two operating elements available per function, e.g. On/Off, Brighter/Darker, Up/Down, Warmer/Colder.
- With button control, the function is controlled by means of a single operating element. The operating direction – e.g. On or Off – switches over with each operation.

 Values can also be changed using a superimposed keypad.

Display symbols


Functions:

-  Light
-  Blinds
-  Weather station
-  Temperature
-  Cleaning function
-  Settings

Operation:

- On
- Off
- + Brighter / Warmer
- Darker / Cooler
- ^ Raise
- ∨ Lower
- < Slat adjustment: Close
- > Slat adjustment: Open





Master button

The master button (5)  can be assigned with a fixed function, e.g. switching the room lighting, or darkening the room.

Pressing the master button switches, dims, moves blinds or changes values. The operating direction – e.g. On or Off – switches over with each operation.

Cleaning the screen

The device features a special cleaning function in order to avoid activating unintentional functions when removing dirt, finger prints etc. While the cleaning function is active, touching the screen surface will cause no action.

-  Do not use sharp objects for cleaning.
-  Do not use sharp cleaning agents, acids or organic solvents.
-  Keep moisture from penetrating into the device.
- Press the symbol  on the function page.

Clean the screen surface with a soft cloth. If needed, moisten the cleaning cloth. Touches are not evaluated for a duration of 30 seconds. The device displays the remaining cleaning time on the screen.

At the end of the cleaning time, the device returns to normal operation.

5 Information for electrically skilled persons



DANGER!

Electrical shock on contact with live parts in the installation environment.
Electrical shocks can be fatal.

Before working on the device, disconnect the power supply and cover up live parts in the working environment.

5.1 Fitting and electrical connection

Mounting and connecting the device

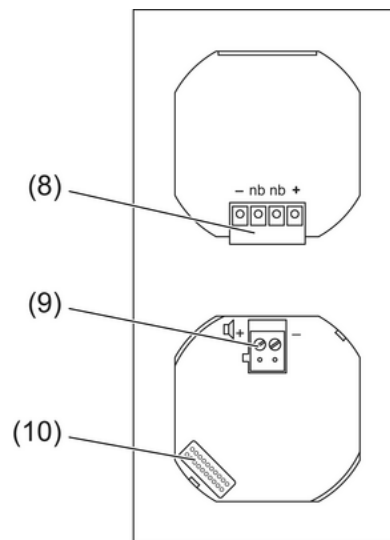


Figure 3: Rear side

- (8) Connection terminal for "+", "-": Power supply
nb: For future expansions
- (9) Connection terminal for loudspeaker module: For future expansions
- (10) Connection for communication module

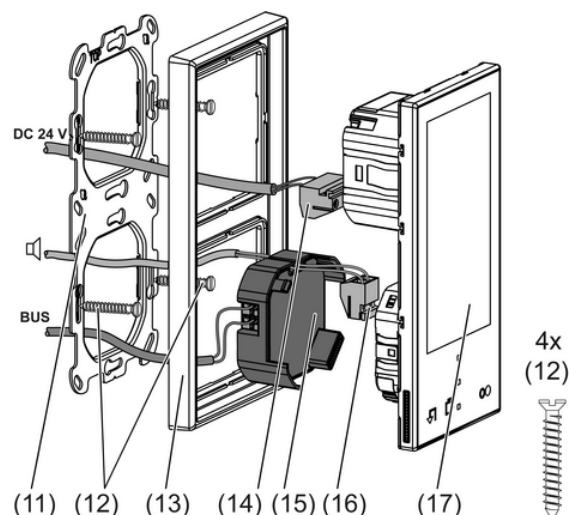


Figure 4: Fitting

- (11) Supporting frame
- (12) Box screws
- (13) Frame
- (14) Power supply connection
- (15) Communication module
- (16) Connection of external loudspeaker
- (17) Basic unit Smart Control

Recommended installation height: 1.40 m,

Installation in two flush-mounted appliance boxes or in double appliance box. Recommendation: Use deep accessory sockets.

When installing more modules, e.g. pushbutton expansion module or loudspeaker module, use additional appliance boxes if necessary.

Installation solely with frame from the LS ranges or FD design.

- Mount supporting frame (11) on flush-mounted appliance boxes. Observe the marking **TOP = OBEN**. Use the enclosed box screws (12).
- Push frame (13) onto supporting frame.
- Connect power supply to terminal (14) and insert into connection (8). Observe correct polarity.
- When installing with loudspeaker module: Connect connecting lead to terminal (16) and insert into connection (9).
- Snap communication module (15) onto the back of the Smart Control in the correct position. Guide the loudspeaker cable through the groove provided of the communication module.
- Connect the bus cable to the bus connection of the communication module.
- Push the Smart Control (17) with the communication module (15) carefully into the supporting frame and lock into place.

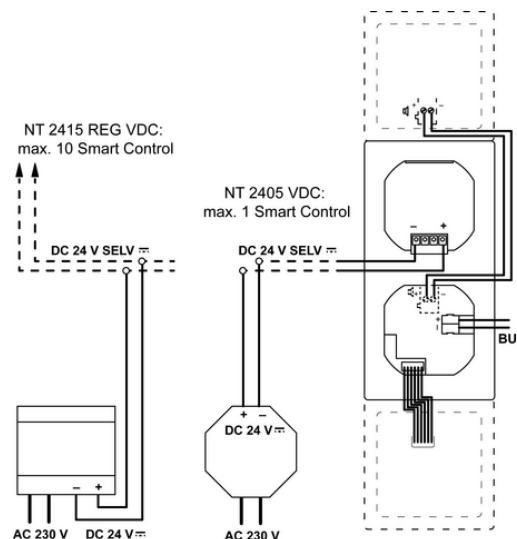


Figure 5: Connection example

Assembling and connecting device with pushbutton expansion module

When installing with a pushbutton expansion module, please also observe the following points:

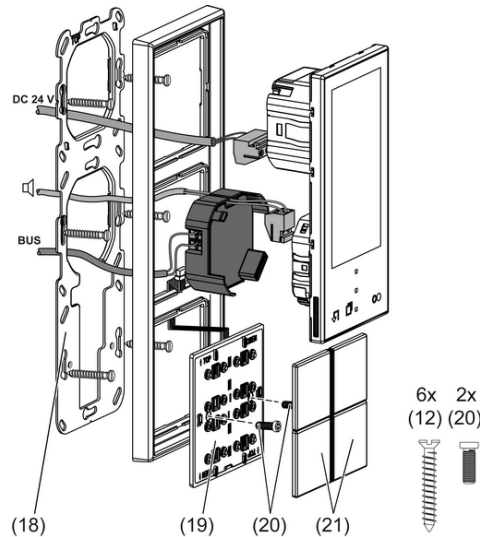


Figure 6: Mounting with push-button expansion module

- (18) 3-gang supporting frame
- (19) Push-button sensor expansion module
- (20) Mounting screws for pushbutton expansion module (plastic)
- (21) Set of buttons for pushbutton expansion module

When installing with pushbutton expansion module, use the 3-gang supporting frame (18).

No separate appliance box is necessary for the pushbutton expansion module. In this case, countersink the screws (20) into the wall, e.g. with a $\varnothing 6 \times 10$ mm hole. Use supporting frame as template.

Use only the enclosed plastic screws (20) for the pushbutton expansion module.

- Mount supporting frame (18) on the flush-mounted appliance boxes. Observe the marking **TOP = OBEN**. Use the supplied box screws.
- Push frame onto supporting frame.
- Guide the connection strands of the pushbutton expansion module (19) between the supporting frame and frame.
- Fix pushbutton expansion module (19) to supporting frame using the plastic screws (20) enclosed. Tighten the screws only lightly.
- Connect the connection strands of the pushbutton expansion module (19) to the communication module (15). The position of the connection is described in the operation manual of the communication module.
- Connect power supply, loudspeaker module and bus cable as described.
- Snap communication module (15) onto the back of the Smart Control in the correct position.
- Push the Smart Control (17) with the communication module (15) carefully into the supporting frame and lock into place.

5.2 Commissioning

The assembly, configuration and commissioning take place depending on the communication module used and are described in the relevant documentation.

6 Appendix

6.1 Technical data

Supply
Rated voltage
Current consumption

DC 24 V SELV
max. 220 mA

Ambient conditions	
Ambient temperature	0 ... +35 °C
Storage/transport temperature	-25 ... +60 °C
Relative humidity	10 ... 90 % rel. humidity (No moisture condensation)
Storage/transport humidity	5 ... 90 % rel. humidity
Safety class	III
System	
Processor	TI OMAP 3530
Mass storage	256 MB Flash EEPROM
RAM	256 MB RAM
Display	
Type	TFT 10.9 cm [4.3"] WVGA
Resolution:	800×480 pixels
Number of colours	16.7 millions
Observation angle	± 80 °
Touchscreen	capacitive
Connections	Screw/screwless terminals
Single stranded	0.14 ... 2.5 mm ²
finely stranded without conductor sleeve	0.14 ... 1.5 mm ²
finely stranded with conductor sleeve	0.14 ... 1.5 mm ²
Internal loudspeaker	
Frequency range	60 ... 12000 Hz
Power consumption	max. 1 W
Loudspeaker output	
Cable length	max. 3 m
Impedance	4 ... 8 Ω
Power output	max. 2 VA
Memory card	Micro-SD-/SDHC, 2...8 GB
Internal clock	
Power reserve	min. 2 h
Dimensions	
Dimensions W×H	71×142 mm
Dimensions screen W×H	56× 93 mm
diagonal	10.9 cm
Installation depth	32 mm
Temperature sensor	
Measuring range	0 ... +45 °C

6.2 Accessories

KNX module	Art.-No.: MSC 1000 KNX
Push-button extension module, 1-gang	Art.-No.: 4091 TSEM
Push-button extension module, 2-gang	Art.-No.: 4092 TSEM
Push-button extension module, 3-gang	Art.-No.: 4093 TSEM
Push-button extension module, 4gang	Art.-No.: 4094 TSEM
Power supply 24 V, flush-mounted	Art.-No.: NT 2405 VDC
Power supply 24 V, for rail mounting	Art.-No.: NT 2415 REG VDC

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 unit postage-free with a description of the defect to our central customer service office.

ALBRECHT JUNG GMBH & CO. KG
Volmestraße 1
58579 Schalksmühle

Telefon: +49.23 55.8 06-0
Telefax: +49.23 55.8 06-2 04
kundencenter@jung.de
www.jung.de

Service Center
Kupferstr. 17-19
44532 Lünen
Germany