

Smart Control IP
Art. No. SC 1000 IP

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

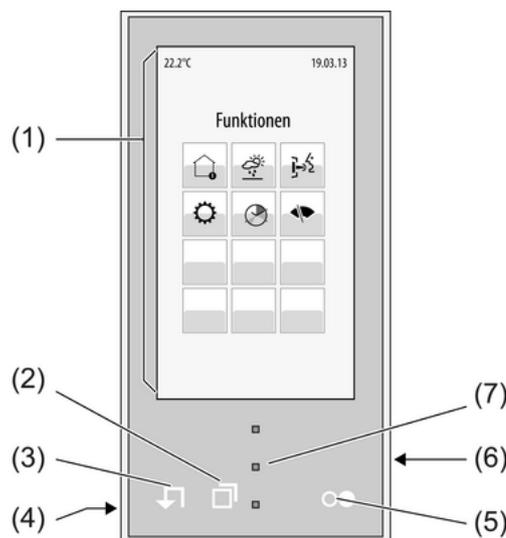


Figure 1: Front view

- (1) LCD screen
- (2) "Scroll" button
- (3) Button "Return" to the start page
- (4) Internal loudspeaker
- (5) Master button
- (6) Slot for micro SD card
- (7) Brightness sensor

3 Function

Intended use

- Operation and visualisation of system data and information from building automation, door communication or Internet services
- 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
- Slot for Micro SD cards for intermediate storage of image data from door communication
- Integrated loudspeaker
- External loudspeaker module connectable (accessory)
- Removable IP communication module
- Integrated room temperature sensor
- Integrated brightness sensor

4 Operation

Graphical user interface

Operation takes place by touching the graphic screen surface with a finger or a special touchscreen stylus (not included in the scope of delivery). A clear, intuitive menu structure divided into several layers is used for guidance. The main menu level contains up to five pages and it is possible to switch between them using the "Scroll" button  (2). Additional entries allow settings, e.g. for a timer or for network properties.

- Functions
- Building technology 1/2
- Weather data
- Door communication
- Timer switch
- Settings
- Cleaning function

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

Master button

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

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

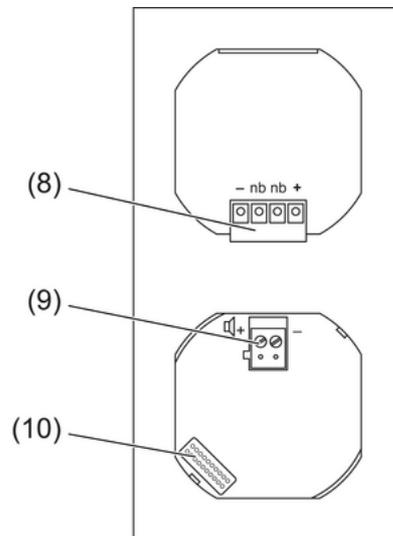


Figure 2: Rear side, communication module dismantled

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

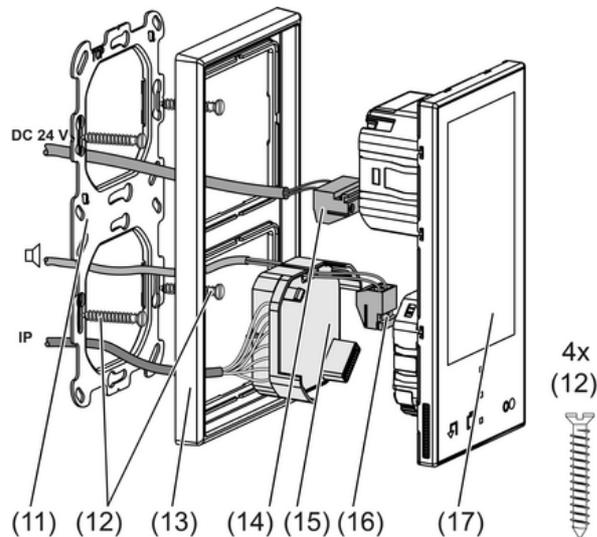


Figure 3: Fitting

- (11) Supporting frame
- (12) Box screws
- (13) Frame
- (14) Power supply connection
- (15) IP 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.

Use additional appliance boxes for mounting with a loudspeaker module.

Mounting solely with frame from the LS range.

- Mount supporting frame (11) on the 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 the terminal into the connection (8). Comply with the polarity.
- With the Ethernet cable connected, plug the IP module (15) onto the rear side of the Smart Control.
- Push the Smart Control (17) with the IP module (15) carefully into the supporting frame and lock into place.

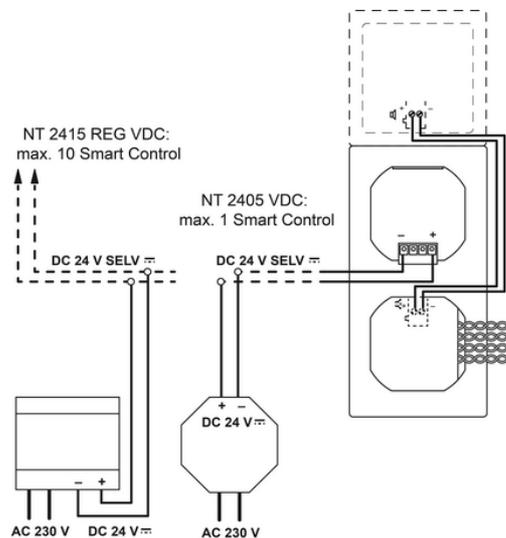


Figure 4: Connection example

Connecting the external loudspeaker module

When using the Smart Control as an internal door station: connect the external loudspeaker module (see chapter 6.2. Accessories).

The IP module is dismantled.

- Connect the loudspeaker line to the terminal (16) and insert into connection (9).
- Guide the loudspeaker cable through the groove provided of the communication module.
- Reattach the IP module.

Connect the Ethernet cable to the IP module

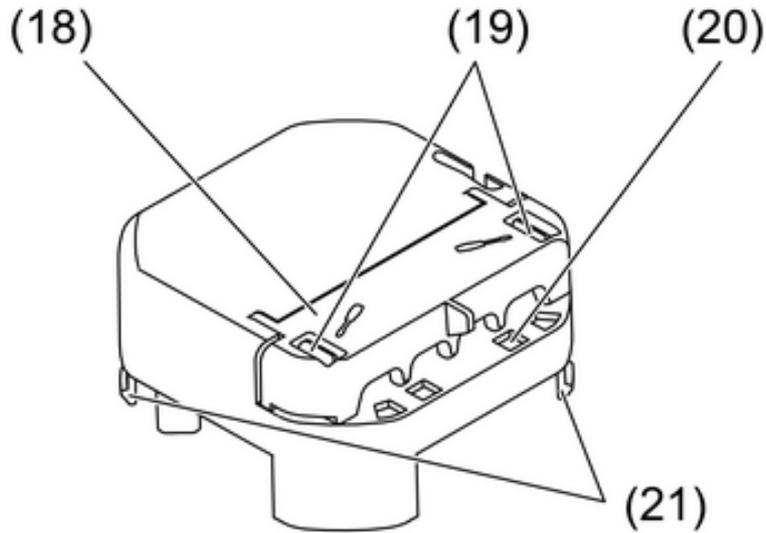


Figure 5: IP communication module

(18) Hinged cover, connection compartment

(19) Notches

(20) LED "Link"

Green: Connection exists to a network
Flickering: Data traffic

(21) Locking notches, IP module

- i** When working on the IP connection on the wall, do not damage the locking notches (21). Use a suitable support.

When connecting to the IP network, pay attention to the correct colour assignment of the wires, EIA/TIA-568-A or -B. This can be found in the documentation of the installed network components and routers.

- Unlock and open the hinged cover (18) on the rear side of the IP module.

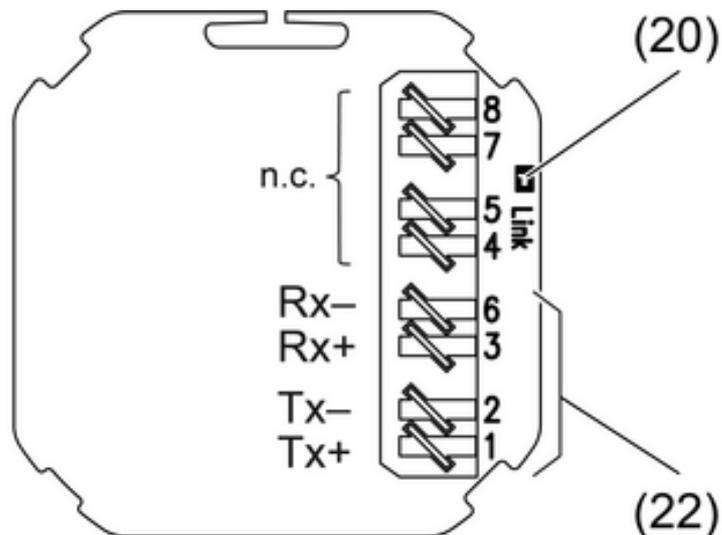


Figure 6: IP connection assignment

(22) Connection terminal

- Strip approx. 100 mm of the Ethernet cable.
- Push the woven shield back and shortened it to approx. 10 mm.
- i** Keep the wire shielding and the twisting as far as is possible.
- i** Do not connect the shield to the module.
- Using an LSA tool, connect the Ethernet wires to the crimp terminals (22) of the IP module. Observe connection assignment (figure 6).
- Close the hinged cover on the IP module.

Dismantling the IP module

The IP module can be dismantled when the Ethernet cable is connected.

- Pull the IP module backwards from the Smart Control.

5.2 Commissioning

Specifying the IP address of the Smart Control IP

The IP address 192.168.0.10 is preset at the factory.

The IP address must be changed, if, for example, it is already assigned in the local network, or if other settings in the local network require this.

The IP address can be set for the local network using automatic web configuration via DHCP or manually, directly on the device.

- Opening the Settings page: On the "Functions" page, select the icon ⚙ "Settings".
- Select the "Network" item.
- If address assignment takes place via DHCP in the local network: select "Network settings". Pressing the on-screen button at the side switches between the "Manual" and "DHCP" settings.
In the "DHCP" setting, further entries are deactivated.
- In the "Manual" setting, open the items "IP address", "Gateway", "Subnet mask" and "DNS Server" by pressing and holding each of them in that order, and then make the necessary settings.
- Saving settings: Press the "Save" button.

Starting the configuration server

Further commissioning takes place using the integrated configuration server. Settings are made using a PC in a current web browser.

Precondition: The local network is configured. The IP address is set according to the specifications of the local network. The commissioning PC is connected to the network.

- Open the configuration server on the commissioning PC: Start the web browser. In the address line, enter the IP address of the Smart Control IP.

The login page of the configuration server appears.

- i** Commissioning with the configuration server is described in the technical documentation of the device.

6 Appendix

6.1 Technical data

Supply	
Rated voltage	DC 24 V SELV
Current consumption	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
Protection class	III
System	

Processor	TI OMAP 3530
Mass storage	256 MB Flash EEPROM
RAM	512 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 for power supply and external loudspeaker	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
Connection of LAN	
IP communication	Ethernet 10/100
IP transmission rate	10 / 100 Mbit/s
IP connection mode	LSA crimp terminal
Internal loudspeaker	
Ethernet cable	CAT5a, CAT6, CAT7
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	
W×H	71×142 mm
Screen W×H	56× 93 mm
diagonal	10.9 cm
Installation depth	32 mm
Temperature sensor	
Measuring range	0 ... +45 °C

6.2 Accessories

Loudspeaker module	Art. No. LSM..4..
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 device with a description of the defect to our central customer service office.

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