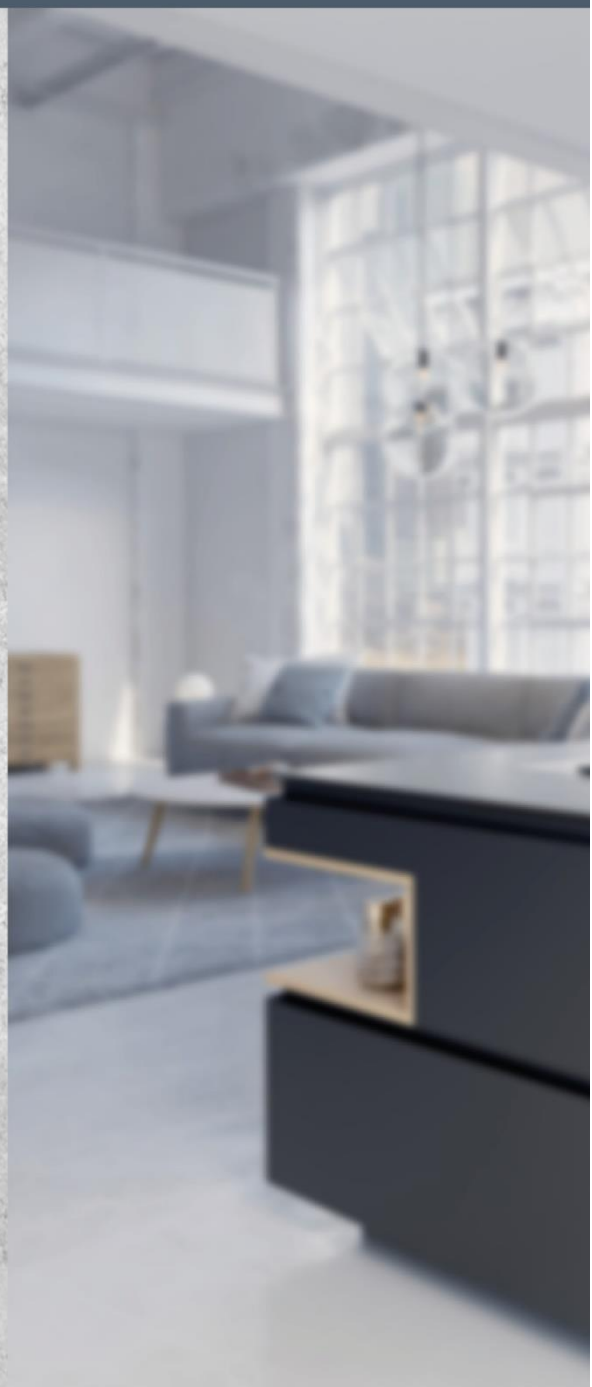


Touch_IT PC35

Data sheet



Product and application description

The touch panel has a 3.5 inch color display equipped with resistive touch.

Dimmers, status indicators, preset values, lighting, Shutters and timers can be integrated and if required be protected with a password.

With the integrated temperature sensor and the integrated room temperature controller function Valves, fan coils or others HVAC devices are managed.

The touch panel has an LED for status display and a buzzer for delivery of sound signals (alarm function).



Touch_IT-PC35 -schwarz
Art.-Nr. 22413204

Touch_IT-PC35 -weiß
Art.-Nr. 22413201

The device is equipped with a micro USB port that is accessible from the front by removing the outer cover. It allows connection to a PC to customize icons, screensavers or logic. The TouchIT Updater program can be downloaded free of charge from the Arcus-EDS GmbH website.

A micro SD card slot is also available to update the device's firmware and save telegrams.

The device is available in two colors (white and black) and is based on Linux OS,

The device is equipped with a KNX communication interface, it can be commissioned with ETS without additional software.

Main Features

- 6 display pages, each with up to 8 control elements for each element, up to 4 KNX objects are used
- Switching and dimming of the lighting
- RGB control with color picker
- Display of the switching status in the building
- Handling of shutters/blinds
- Audible and visual alarm functions
- Display of object states as plain text
- Display and setting of heating control parameters
- Control of multi-room audio systems
- Display of temperatures
- Weekly timer
- Astronomical timer for sunset/sunrise controlled controls
- Data logging and on-display graphing capability
- Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a scripting language
- Separate display page for alarm purposes
- Each page and each element can be protected by global or dedicated passwords to be protected
- Different layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable
- Possibility for custom layouts, icons, screensavers, etc.
- The device includes a thermostat with temperature sensor to manage the following main functions:
 - PI control algorithm, on / off; PWM, continuous monitoring / control of fan coils 2 and 4 pipes
 - different modes: automatic HVAC / manual HVAC
 - Functions for managing a window contact or comfort forced control
 - Possibility of managing an additional temperature sensor via the data bus

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- PI control algorithm, on / off; PWM, continuous monitoring / control of fan coils 2 and 4 pipes
- different modes: automatic HVAC / manual HVAC
- Functions for managing a window contact or comfort forced control
- ability to manage via the data bus from an additional temperature sensor

1350 d2 / Subject to change

Technical specifications

Power supply:

Auxiliary power supply typ. $9 \div 32$ V DC
Current consumption 60 mA at 24 V DC
Via bus EIB/KNX $21 \div 32$ V DC
Power consumption EIB / KNX < 5 mA

Operating and display elements

1 white signal LED
1 buzzer for acoustic signalling
EIB/KNX LED

Connections and clamps:

Red/grey for connection to the EIB/KNX bus
White/yellow for connection to the auxiliary supply
Micro USB
Micro SD card (max. 32 GB)

Mechanical data

Housing: data plastic (PC-ABS)
Dimensions: (W x H x D) 96 x 96 x 15 mm
Weight approx. 150 g
Installation: flush-mounted box, German, Swiss

Electric security

Degree of pollution: 2 (EN 60664-1)
Degree of protection: IP20 (EN 60529)
Protection class: III (IEC 1140)
Overvoltage class: III (IEC 664-1)
Bus: SELV: $21 \div 32$ V DC
Reference standards: EN 63044-3

Electromagnetic compatibility

Reference standards: EN 63044-5-1 / EN 63044-5-2

Environmental specification

Reference standards: EN 50491-2
Operating temperature $-5^{\circ}\text{C} +45^{\circ}\text{C}$
Storage temperature: $-20^{\circ}\text{C} +55^{\circ}\text{C}$ max. 90%
Relative humidity (non-condensing): max. 90%
Installation environment: indoor, dry places
CE mark In accordance with the EMC directive and the low-voltage directive

Temperature calibration

The correct temperature measurement is checked at the factory; However, it is necessary to follow some guidelines to get more accurate and reliable measurements.

The flush-mounted box can be exposed to air currents, for example from the pipe that leads the bus cable to the device: it is recommended to seal the pipe and protect the device with insulating material.

The temperature measured by the device installed on the wall may differ from that in the middle of the room, since the walls can be warmer or colder than the air. This depends on several factors: interior or exterior walls, direct or radiant heat sources nearby.

It is recommended to measure the temperature at a suitable place in the room with a reliable instrument and to set the KNX internal sensor calibration parameters so that the instrument and device measurements are the same.

The temperature measured by the device is often closer to human perception than a pure air temperature measurement, since the radiation effects of the walls are not considered there.

Installation instruction

The device may be used for permanent indoor installations in dry rooms within wall socket brackets.

- WARNING
- The device must not be connected to 230V lines
- The applicable safety regulations must be observed.
- The device must be installed and commissioned by an authorized specialist.
- The applicable safety and accident prevention regulations must be observed.
- The device must not be opened. All faulty devices should be returned to the manufacturer.
- The relevant guidelines, regulations and standards of the respective country must be taken into account when planning and constructing electrical installations.
- The KNX bus allows commands to be sent remotely to the system's actuators. Always make sure that executing remote commands does not lead to dangerous situations and that the user always gets a warning about which commands can be activated remotely.
- The KNX bus is generally not suitable for security-relevant installations.

Notes on connecting the auxiliary power

SELV power supplies with 12V or 24V or the auxiliary voltage of the KNX supply can be used.

The power requirement is max. 2W (peak load) per device.

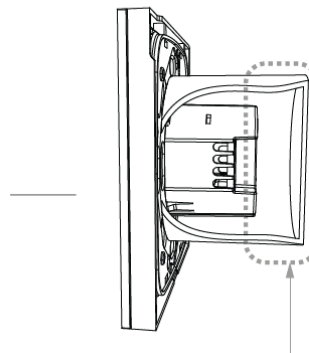
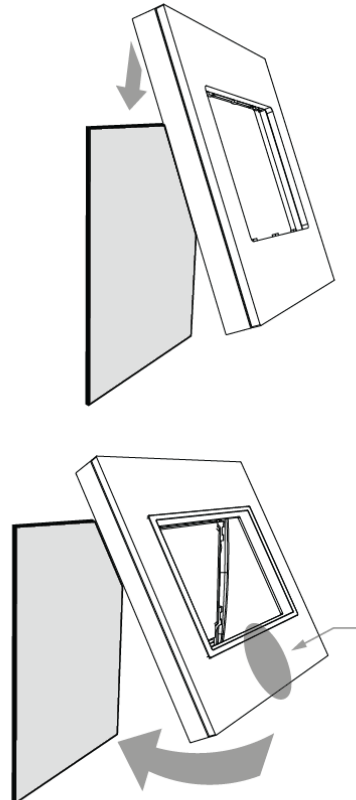
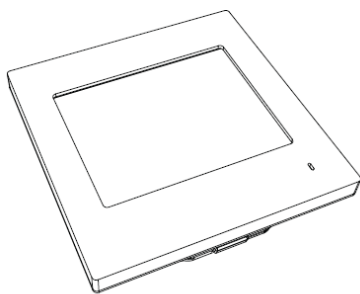
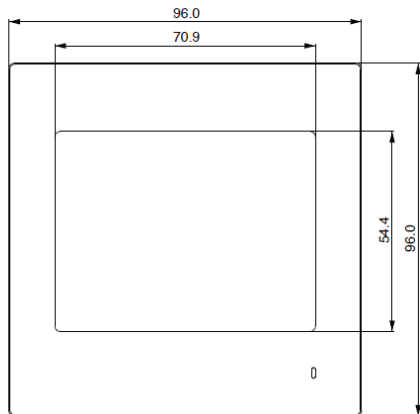
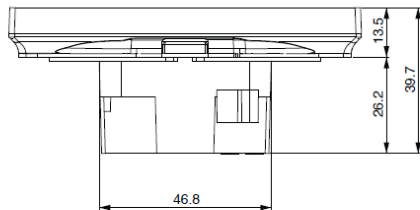
A 15W power supply can supply up to 6 devices, a 24W device up to 12.

Wall mounting of the touch panel

Attach the cover from the top.

Caution: Press until it clicks by pressing only the bottom edge to avoid damaging the cover plate.

Pay attention to the cables in the flush-mounted box: they could press the bottom and cause problems for the display.



Article Nr.:

Touch_IT-PC35-white 22413201

Touch_IT-PC35-black 22413204

1350 d2 / Subject to change

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The selection of the devices and the determination of the suitability of the devices for a specific purpose are solely the responsibility of the purchaser. No liability or guarantee is assumed for these. The information in the catalogs and data sheets does not represent a guarantee of particular properties, but results from empirical values and measurements.

Liability for damage caused by incorrect operation/project planning or malfunctions of the devices is excluded.

Rather, the operator/planner must ensure that no further damage can occur as a result of incorrect operation, incorrect configuration and malfunctions.

Safety regulations

Caution! Installation and assembly of electrical devices may only be carried out by a qualified electrician.

The buyer/operator of the system must ensure compliance with the relevant safety regulations of the VDE, TÜV and the responsible energy supply companies. No warranty is accepted for defects and damage caused by improper use of the devices or non-observance of the operating instructions.

Disposal



The crossed-out wheeled bin symbol on the device or packaging means that the product must not be disposed of with other general waste at the end of its useful life.

Warranty

We provide warranty within the scope of the legal provisions.

In the event of a claim, please contact us and send the device, with a description of the error, to our company address below.

Manufacturer



The CE mark is a free trade mark, which is aimed exclusively at the authorities and does not include any assurance of properties



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