

Touch_IT AC35

Datasheet



Touch_IT AC35

The 3.5" TFT display with 320 x 240 pixels and 256 colors is used for visualization and control in KNX systems.

The Touch_IT AC35 has a very small installation depth of 12 mm and has an integrated infrared temperature sensor.

The SD card and USB port are accessible from the outside.

The device is delivered with a mounting ring.

A locking screw is used for mounting in a standard (60/68 mm) flush-mounted box.

The AC35 has an integrated KNX bus coupler and requires an additional voltage of 9 ... 32VDC / 2.5W.

The Touch_IT AC35 must be configured using the ETS and the application program **TouchIT_V2.knxprod**.

> see also **1300_Manual_Touch_IT_Serie.pdf**

Technical and functional base data

- 3.5" TFT display with 320 x 240 pixels and 256 colors
- Resistive touchscreen
- Integrated IR temperature sensor
- Complete configuration via ETS
- Linux operating system
- MicroSD card slot for data logging in connection with the logger widgets (without card)
- USB port for configuration
- Power supply with 2nd wire pair or via USB port
- KNX bus load <=10mA
- Mounting in standard flush-mounted box 60/68mm




Table 1

AC35	Metal housing aluminum sandblasted anodized	22413103
AC35 black	Metal housing aluminum sandblasted black anodized	22413104

Main Features

- 6 display pages with up to 8 operating elements each with up to 4 KNX communication objects each
- Switching and dimming of the lighting
- RGB control with color selector
- Display of the switching status in the building
- Handling 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
- Visualization of temperatures
- Weekly timer | Astronomical timer for sunset/sunrise controlled controllers
- Data logging and on-display graphing function
- Internal scenes with 32 action objects and programmable delays
- Logic functions can be implemented in a script language (LUA)
- Separate display page for alarm purposes
- Each page and element can be protected by global or dedicated passwords.
- Various layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable.
- Possibility for custom layouts, icons, screensavers, etc.

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Technical data	
Display	3.5" TFT colour display (320x240 RGB) (256k colour) touchscreen
Processor	200MHz 32-Bit ARM
Background Lightning	LED
Parameterisation	Via ETS5
Max. Number of elements	8 elements per page (each with up to 4 objects)
Max. Number of pages	5 control pages + 1 alarm page or 6 control pages
Ambient temperature, storage	-20..+55°C
Ambient temperature, operation	-5..+45°C
Bus voltage	21..32 VDC
Bus current	max. 10mA
Auxiliary voltage	9...32 VDC / 2,5W
Bus coupling module	integrated
Configuration via ETS	Touch_IT_V2.knxprod
Connections outside	MicroSD Card  USB Micro
Connections flush-mounted	KNX-2-pole terminal (red / black) AUX-2-pole terminal (yellow / white)
Integrated temperature sensor	Infrared
Protection class	IP20
Installation type	Flush mounting
Housing	Various see Table 1
Housing dimensions	(80 x 80 x 12)mm (L x W x H)
Article number	see Table 1

Electrical safety

Pollution level:	2 (EN 60664-1)
Protection type:	IP20 (EN 60529)
Protection class:	III (IEC 1140)
Overvoltage class:	III (IEC 664-1)
Bus SELV:	21 ÷ 32 V DC
Reference standards:	EN 63044-3

Electromagnetic compatibility

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

Reference standards:	EN 50491-2
Operating temperature:	-5 °C +45 °C
Storage temperature:	-20 °C +55 °C max. 90%
Relative humidity (non-condensing):	max. 90%
Installation environment:	inside, dry places

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Behaviour on bus voltage recovery

All settings made with the ETS will be retained.

Unload programme and reset unit

If the visualisation does not react due to a malfunction or incorrect configuration of the programming, the entire project planning can be deleted. The unit is reset to the delivery state.

Please touch the display while connecting the power supply. As soon as the display turns on, you can take your finger off the display. Follow the instructions on the display.

An error message "No such file or directory" follows, which you can acknowledge with OK.

Temperature calibration

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

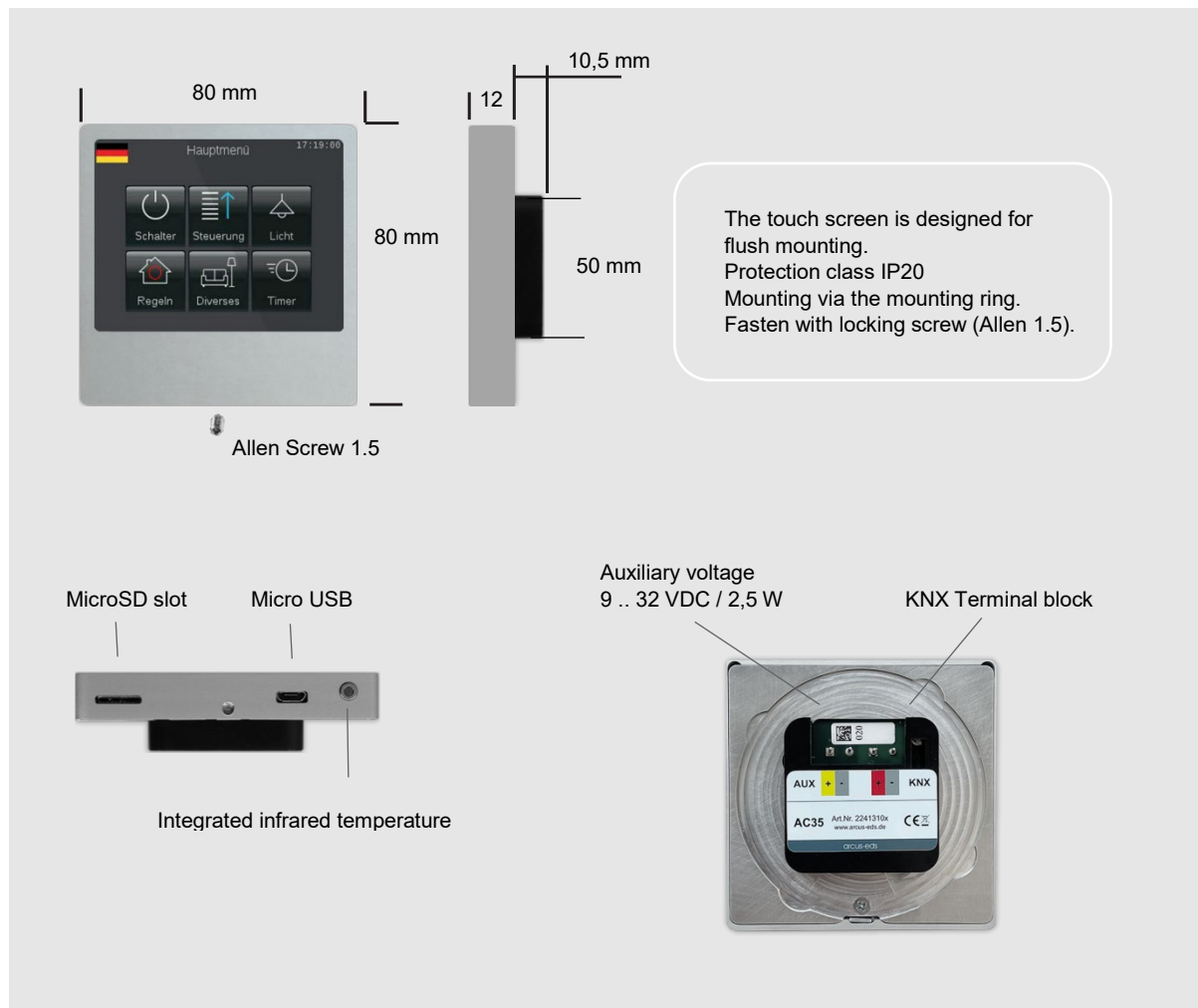
The flush-mounted box can be exposed to air currents, for example from the pipe that leads the bus cable to the device: it is recommended to seal the pipe and protect the device with insulating material.

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.

Connector description | Dimensions



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First use

First use and configuration of the KNX display is done using ETS and relative application. Out-of-the-Box the device is unprogrammed. All needed functions must be configured and programmed using the ETS

See >1300_ManualTouch_IT Serie for reference.

Installation



The display is designed for flush mounting. The protection class is IP20.

Mounting is done via the mounting ring. A locking screw (Allen j1.5) is used for fixing. Please ensure that electronic parts are not damaged by tools or cable ends during installation.

The unit may be used for permanent indoor installations in dry rooms within wall box mountings.

WARNING

- The unit shall not be connected to 230V lines.
- The applicable safety regulations must be observed.
- The unit must be installed and commissioned by an authorised specialist.
- The applicable safety and accident prevention regulations must be observed.
- The unit must not be opened. All faulty units 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.

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Impressum

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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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