

# Touch\_IT SMART

## Data sheet

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**Touch\_IT-SMART**

The 3.5" TFT display with 320 x 480 pixels and 256 colors is used for visualization and control in KNX systems.

The Touch\_IT-SMART has a very low installation depth of 10.5mm and has an integrated infrared temperature sensor.

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

The device is supplied with a mounting ring.

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

The Touch\_IT SMART has an integrated KNX bus coupler and requires an additional voltage of 9 .. 32VDC / 1.5W.

The Touch\_IT SMART must be projected with the ETS (EIB Tool Software) and the application program **TouchIT\_V2.knxprod.** > see also **1300\_Manual\_Touch\_IT\_Serie.pdf**



**Technical and functional basic data**

- 3.5" TFT display with 320 x 240 pixels and 256 colors
- resistive touch screen
- Connection for internal IR temperature sensor
- Complete commissioning via ETS5®
- Linux operating system
- MicroSD card slot for memory expansion (without card)
- USB port for configuration
- Power supply with 2nd pair of wires or via USB port
- KNX bus load <=10mA
- Installation in standard flush-mounted box 60/68mm

Tabelle 1

Touch_IT-SMART-SAE	Metal housing without chamfer Aluminum sandblasted anodized	22410500
Touch_IT-SMART-SAW	Metal housing without bevel aluminum sandblasted white powder-coated	22410501
Touch_IT-SMART-SAS	Metal housing without chamfer aluminum ground anodized	22410503
Touch_IT-SMART-SAB	Metal housing without facet aluminum ground black anodized	22410504

**Main functions**

- 6 display pages, each with up to 8 control elements, each with up to 4 KNX communication objects
- 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 multiroom 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 element can be protected by global or dedicated passwords
- Different layouts, visual styles and standby options
- Many languages available
- Character sizes and styles are selectable
- Possibility for custom layouts, icons, screensavers, etc.

e2 / Subject to change

Technical data	
Display	3.5" TFT color display (320x240 RGB) (256k color) touch screen
Processor	200MHz 32-bit ARM
Backlight	LED backlight
Parameterization	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	-5 .. +45°C
Ambient temperature, operation	-20 .. +55 °C
Bus voltage	21..32 VDC
Bus power	Max. 10mA
Additional voltage	9...32VDC / 1.5W
bus coupling module	Integrated
Commissioning via ETS	Touch_IT_V2.knxprod
Connections outside	MicroSD card
In wall connections	Mini USB port KNX 2-pin clamp ( red / black ) AUX 2-pin Clamp ( yellow/ white )
Integrated temperature sensor	Infrared
degree of protection	IP20
installation type	flush mounting
casing	Various   see Table 1
case dimensions	( 80 x 80 x 12) mm (LxWxH)
item number	224105xx see Table 1

#### 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 ÷ 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°C +45°C  
Storage temperature: -20 °C +55 °C max. 90%  
Relative humidity (non-condensing): max. 90%  
Installation environment: indoor, dry places

e2 / Subject to change

### Behavior on bus voltage recovery

All settings made with the ETS are retained.

### Unload program and reset device

If the visualization does not react due to a malfunction or an incorrect configuration of the programming, the entire configuration can be deleted by pressing the programming button. The device is reset to the delivery status. Please press and hold the programming button while connecting the power supply and wait for the touch screen calibration application to appear. Usually this takes 40-60 seconds. After entering the calibration points, you can resubmit your application.

### Temperature calibration

The correct temperature measurement is verified in the factory; however, it is necessary to follow some indications to obtain more precise and reliable measurements.

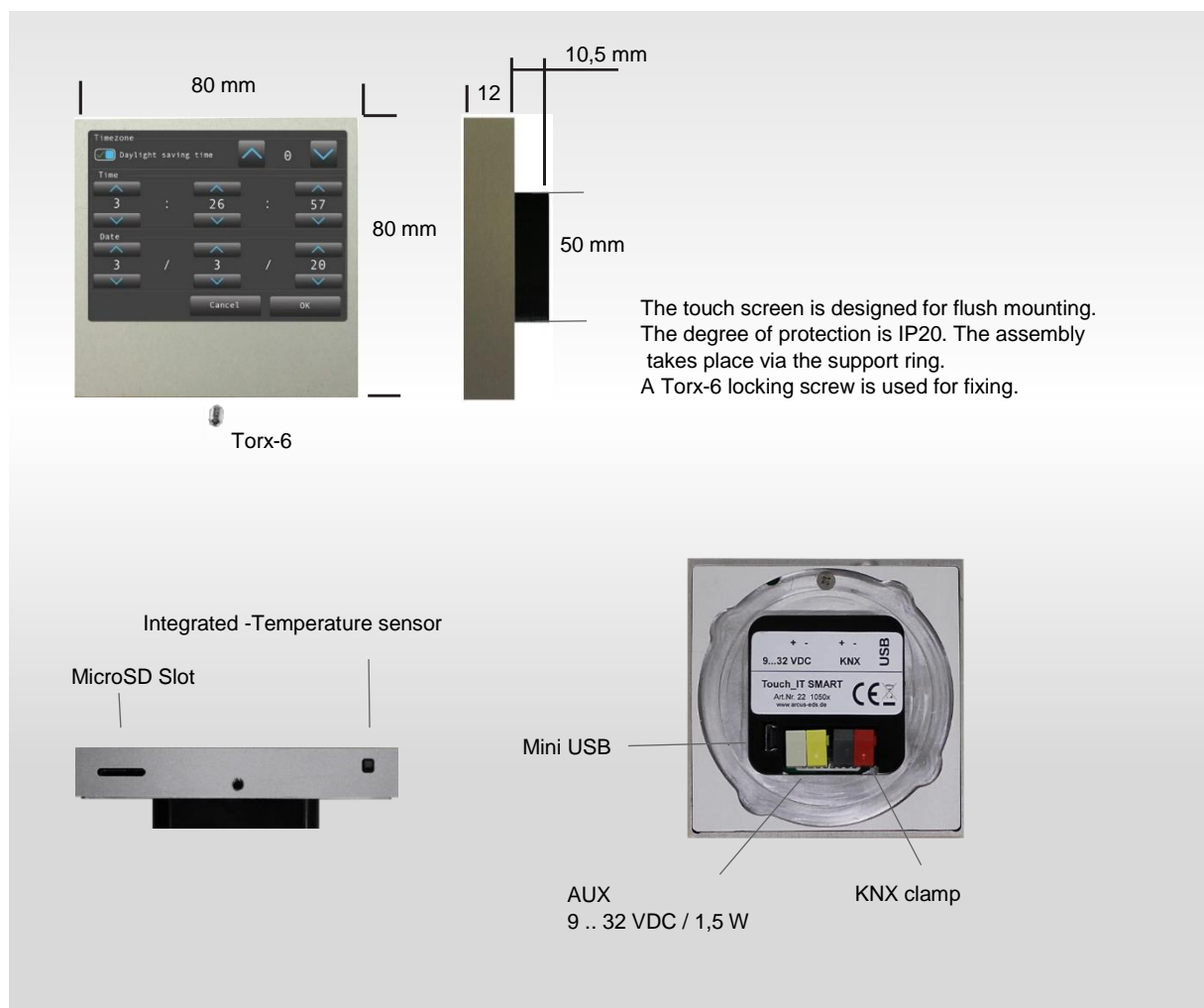
The flush-mounted box may be subject to air flows, for example from the pipe that carries the bus cable to the device: it is recommended to seal the pipe and protect the device with insulating material.

The temperature measured by the device installed on the wall may be different from that in the center of the room since the walls may be warmer or colder than the air. This depends on several factors: internal or external walls, direct or radiated heat sources nearby.

It is suggested to measure the temperature in the center of the room with a reliable instrument and set the KNX calibration parameter of the internal sensor 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



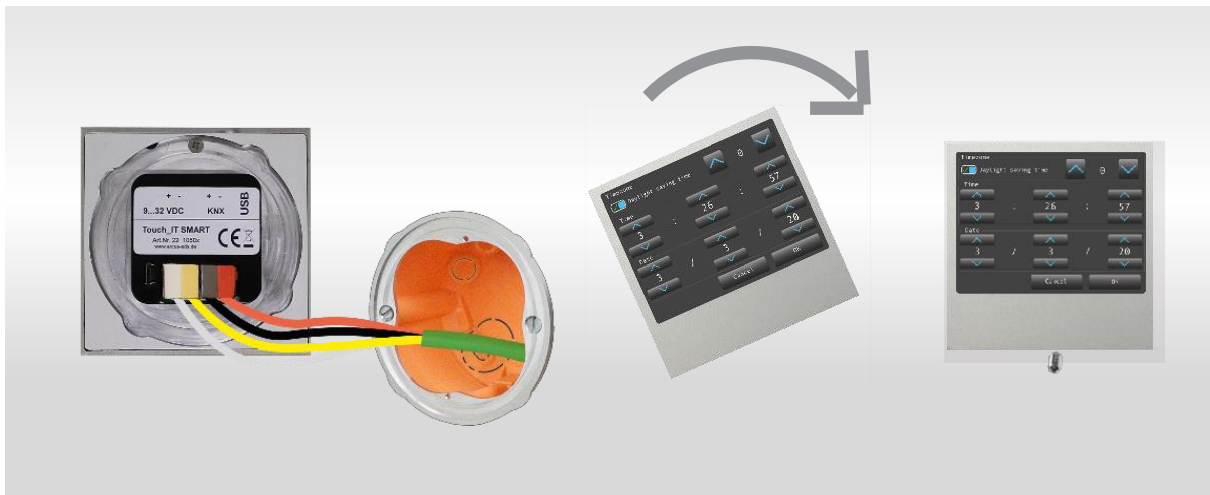
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## Commissioning

The KNX display is commissioned via the ETS (EIB Tool Software) and the corresponding application software. When delivered, the device is unprogrammed. All functions must be parameterized and programmed via the ETS.

See also >1300\_ManualTouch\_IT\_series

## Installation



The display is designed for in wall installation. The degree of protection is IP20.

It is installed using the support ring, and a Torx-6 locking screw is used for attachment. Please be careful not to damage electronic parts with tools or wire ends during installation.

The device may be used for permanent indoor installation 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 may only be installed and commissioned by authorized specialist personnel.
- The applicable safety and accident prevention regulations must be observed.
- The device must not be opened. All faulty devices are to be returned to the manufacturer.
- When planning and installing electrical systems, the relevant guidelines, regulations and standards of the respective country must be considered.
- The KNX bus allows commands to be sent 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-related installations.

## Imprint

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## 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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