



## Inwall Room Temperature Unit

**TM11B01KNX – Varnished Light Grey**  
**TM11B11KNX – Dark Grey**  
**TM11B21KNX – White**

### Product and Applications description

The Inwall Room Temperature Unit TM11Bx1KNX is an EIB/KNX wall mounting device designed for HVAC applications in Home and Building installations (i.e. offices, hospitals, hotels, private houses, etc.).

The device is equipped with one binary input (potential free contact) for general purpose usage and one binary output relay.

The LCD on the front side displays the following information:

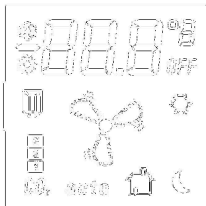
- Actual temperature from 0 to 50.0 °C
- Icon for display status
- Setpoint with the ability to change value and sending it on the bus

The control elements available on the front are:

- A push button to increase the temperature setpoint and CO<sub>2</sub> level
- A push button to decrease the temperature setpoint and CO<sub>2</sub> level
- A push button to change the fan coil speed (OFF-S1-S2-S3-AUTO)
- A push button to change from standby and comfort status

The device configuration for commissioning in terms of physical address, group addresses and parameters is done with ETS ( Engineering Tool Software) through a download of the Application Program.

### Display and Icons



- Cooling Mode
- Heating Mode
- Night Mode (Economy)
- Automatic mode
- Comfort or Stand-by Mode
- Fan Coil speeds
- Thermostat OFF
- Antifreeze
- CO<sub>2</sub> level

### Application Program

See Eelectron product Database: "Eel\_db01.VD2".

### Technical data

#### Power Supply

- Via bus EIB/KNX cable

#### Inputs

- Number: 1 potential free contact
- Input signal voltage Un = 24V
- Input signal current at close contact = 1mA

#### Outputs

- Number: 1 relays NO 30 V AC, 1A (AC1)

### Control Elements

- 1 programming push button (back side)
- 1 push button to increase temperature setpoint and CO<sub>2</sub> level
- 1 push button to decrease temperature setpoint and CO<sub>2</sub> level
- 1 push button to change fan coil speed (OFF-S1-S2-S3-AUTO)
- 1 push button to change from standby and comfort status

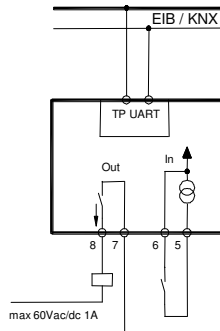
### Display Elements

- 1 LED red (back) for ETS programming
- 1 LCD display B/W, size 43,5X43,5 mm

### Connections

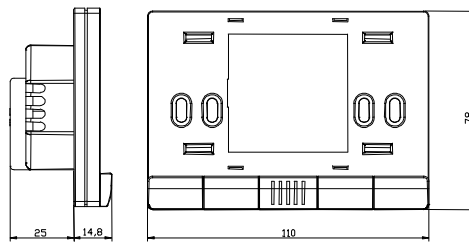
- Bus line: bus terminal connector block, single core max 0,8mm Ø
- Output relay: Screw terminal block, Conductor cross section max.1,5 mm<sup>2</sup>
- Input signal (potential free): Screw terminal block, Conductor cross section max.1,5 mm<sup>2</sup>

### Wiring Diagram



### Physical specifications and Dimensions

- Housing: plastic
- Colours: Light Grey Varnished (TM11B01KNX), Dark Grey (TM11B11KNX), White ( TM11B21KNX)
- Dimensions: (W x H x D): 110 x 78 x 39,8 mm
- Weight: approx. 65 g.
- Installation: Flash mounting in 2 or 3 modules or wall round box Ø60mm, 40mm deep



### Electrical Safety

- Pollution degree : 2 (according to EN 60664-1)
- Protection class IP20 (according to EN 60529)
- Safety class: III (according to EN 61140)
- Overvoltage category: III (according to EN 60 664-1)
- Bus: safety extra low voltage SELV DC 24 V
- Device complies with EN 50090 e EN 60664-1

### Electromagnetic compatibility

Complies with EN 50081-1, EN 50082-2 e EN 50090-2.2

### Environmental specifications

- Climatic conditions: complies with EN 50090-2.2
- Ambient operating temperature: 0 °C + 50 °C
- Storage temperature: - 20 + 55 °C
- Relative humidity: max 90 % without condensation

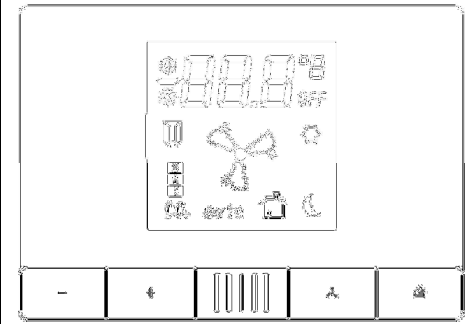
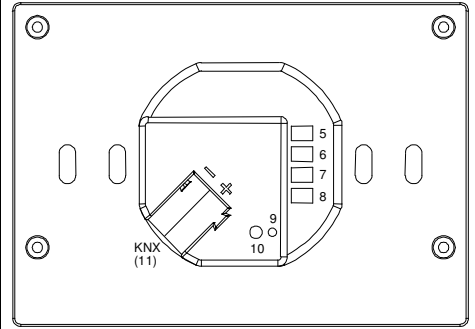
### Certification

KNX/EIB certificate

### CE Mark

In accordance with the EMC guideline and low voltage guideline

### Location and Function operating and display elements



### Terminals and Operating Elements:

- 5 COM input
- 6 Input 1 (potential free)
- 7 COM Output
- 8 Output terminal relay 1 (NO)
- 9 Programming LED
- 10 Programming push button
- 11 Bus Connection Terminal:  
Black = bus polarity (-)  
Red = bus polarity (+)
- 12 Set point, CO<sub>2</sub> level -
- 13 Set point, CO<sub>2</sub>level +
- 14 Temperature Sensor
- 15 Fan Speed
- 16 Standby - Comfort

### Installation Instructions

The device may be used for permanent indoor installations in dry locations within wall box mounts.

### WARNING

- The device must not be connected to 230V cables
- The prevailing safety rules must be heeded.
- The device must be mounted and commissioned by an authorised installer.
- The applicable safety and accident prevention regulations must be observed.
- The device must not be opened. Any faulty devices should be returned to manufacturer.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.

### Mounting and Wiring hints

#### General Description

The device configuration (KNX physical address assignment) is done by pressing the programming push button (10) located in the back side of the housing. Please take care during installation to leave connection wires long enough in order to remove the device easily from the wall box for commissioning.

#### Connecting bus cables

- Connect each single KNX/EIB bus core inside the terminal block (11) observing bus polarity .
- Slip the bus connection block (11) into the guide slot placed on the back side of this device and press the block down to the stop.

#### Wall box mounting

Use for mounting only screws included