theben

309 483 01

KNX OT box

OpenTherm interface for KNX

855 9 200

Designated use

The KNT OT box serves as an interface between the heating system in the OT bus (simple bus system in heating and ventilation technology) and the KNX system.
It delivers the necessary data for heating control (heating etc.) and sends it to the heater. The following functions are available with the KNT OT box:
– needs-driven advance control
– weather-dependent advance control
– control of domestic water heating
– energy maximisation with solar support of domestic water heating
– minimum heating requirement/screed drying program
– legionell a protection program

ETS (engineering tool) enables application programs to be selected, specific parameters and addresses to be assigned and transferred to the device.
The device is designed for installation on DIN top hat rails (in accordance with EN 60715). Only to be used in closed, dry rooms.

Safety advice

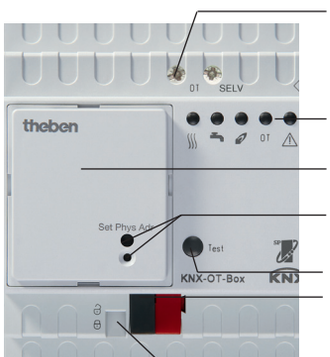
NOTE

➢ Installation should only be carried out by a professional electrician.

Please note the provisions of EN 50428 for switches or similar installation material for use in building systems technology with regard to the correct installation of bus lines and device start-up procedure.
Tampering with, or making modifications to, the device will invalidate the guarantee.

Description

KNX OT box



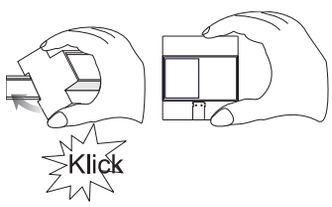
① Connection terminals for OT
② 5 LEDs
③ KNX bus module
④ Programming keys and LED for physical address
⑤ Manual push button **Test**
⑥ Bus connection: Ensure correct polarity!
⑦ Slide for locking KNX bus module

Description of LEDs

≋	LED 1 green	Central heating (flashes when minimum heating requirement is active)	OT: CH enable
	LED 2 green	Domestic water heating	OT: DHW enable
	LED 3 green	Burner on/off	OT: flame state
OT	LED 4 green	OpenTherm active (flashes with OT telegram)	
⚠	LED 5 red	Error (flashes)	OT: error

Installation

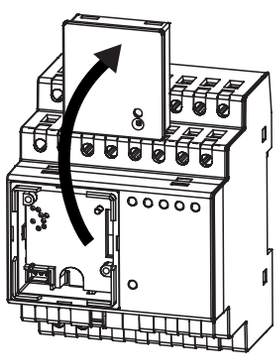
➢ Clip KNX OT box onto the distributor rail.

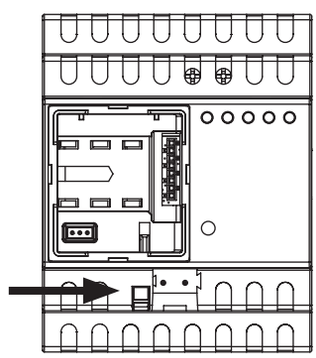


KNX bus module

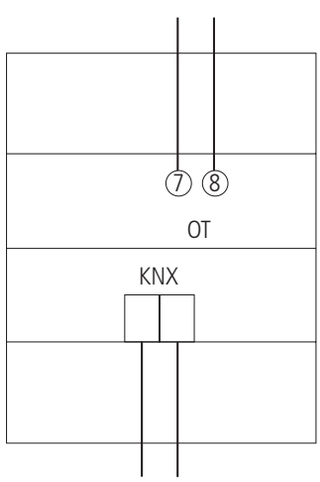
KNX OT box and KNX bus module can be separated mechanically.

➢ Unlock and remove KNX module ③ on the KNX OT box ⑦ or replace and lock it.





Connection



Manual operation – push button test

➢ Press **test** button until heater switches on.
This test function checks whether the KNX OT box is correctly connected to the burner.

Minimum heating requirement/screed drying program

Minimum heating requirement is the preparation for laying floor coverings and serves to dry the screed to enable fast laying of floor (= minimum heating requirement). This test must be performed by the floorer.

- The device supports minimum heating requirement in accordance with DIN EN 1264-4.
- The minimum heating requirement function is set ex works and is activated on set-up (LED 1 flashes).
- The function can be deactivated via the ETS (**Minimum heating parameter)** or reactivated.
- The function can be interrupted up to start-up by withdrawal of KNX bus module.

Technical data

- Operating voltage (bus): 30 V
- Current consumption (bus): 10 mA
- Permissible ambient temperature: –0 °C ... +45 °C
- Protection class: III in accordance with EN 60730-1
- Protection rating: IP 20 in accordance with EN 60529
- Mode of operation: Type 1 in accordance with EN 60730-1
- Pollution degree: 2 in accordance with EN 60730-1
- Rated impulse with stand voltage: 4 kV
- Bus protocol used: OpenTherm V4.0 with SmartPower

Observe deviating technical data on the device rating plate!
Technical changes reserved.
The ETS database is available at **www.theben.de**
Please refer to the KNX Handbook for detailed functional descriptions.

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