

theben

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Operating Instructions

for the Heating Actuators

HMT 6 and HMT 12 KNX

for use with heat circulation/distribution systems to control thermal actuators

1.0 Application and description

The system consists of an **HMT 6** or **HMT 12** device, the room thermostats as well as the actuators. Both are used in residential applications as well as various types of service buildings and facilities. Both heating actuators can optimize the effectiveness of room thermostats used with thermal actuators. They are suitable for installation in heat circulation/distribution systems and are equipped with Triacs to ensure silent switching operation.

Features of HMT 6/12

- Easy wiring of actuators (24 V).
- Connection of up to 13 actuators.
- The unit can be mounted directly to the wall or attached on the mounting bracket.
- Easy installation by using the unique Spring Clamp Terminals and color-coding minimizes the installation and setup time tremendously.
- The operation indicators inform the user about the operating voltage and the condition of the fuse.

2.0 Electrical connections

Both routing and connecting up the bus cable as well as installation work must be carried out in accordance with the applicable regulations and guidelines of DIN/VDE, as well as with the KNX Handbook from ZVEI/ZVEH. The work may only be carried out by qualified electricians with appropriate KNX training. National norms and the applicable safety regulations shall be observed. Any changes made to the device will invalidate the guarantee.

3.0 Safety Instructions

Modifications or changes to this equipment are only permitted after the manufacturers approval. The manufacturer does not accept liability for damages arising from misusing **HMT 6** and **HMT 12**.

Authorized specialists

Installations of electrical systems shall only be carried out by trained, qualified specialists in accordance with the national, valid regulations and in compliance with the ordinances stipulated by the local power authorities. These instructions may be subject to technical alterations.



Sources of danger

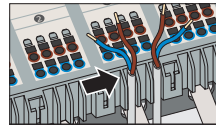
- Before opening the basis always switch the system off.
- To clean the unit use a dry towel only.
- Never clean the unit with water or other solvents (e.g. spirit, acetone).

In case of emergency

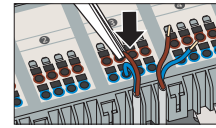
- Immediately remove the plug from the mains.

4.0 Network connection / Connection of actuators

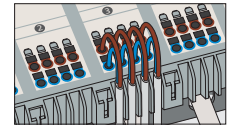
- Each actor requires its own connection to the main power supply.
- Possibility to connect up to a maximum of 13 actuators to the basis.



Press the wires into the cable grip so that the sheath is flush with the top edge.



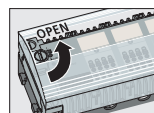
Insert the die end of the lines into the Spring Clamp Terminals. Observe the color coding of the connections.



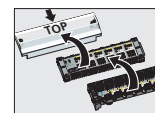
A maximum of 4 actuators can be connected to each channel.

5.0 Installation

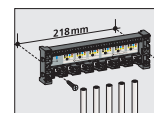
Mounting on the wall



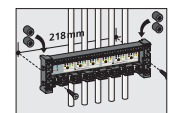
To lift the transparent cover from the junction unit turn the screws.



Prepare the device for installation by separating all pieces.

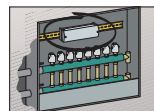


Install the base unit directly onto the wall (Ø for screws 2,5 mm).

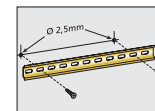


To allow wiring to be routed behind install the base unit with spacers.

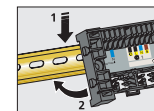
Installation on mounting bracket



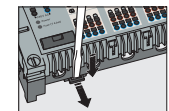
Simple installation on mounting bracket (EN 50022).



Attach mounting bracket using the 2 screws of the delivery contents

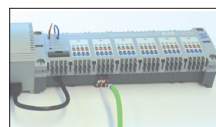


Clip the base unit onto the mounting bracket.

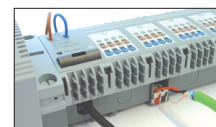


To remove the base from the rail, use a screwdriver as shown.

KNX connection



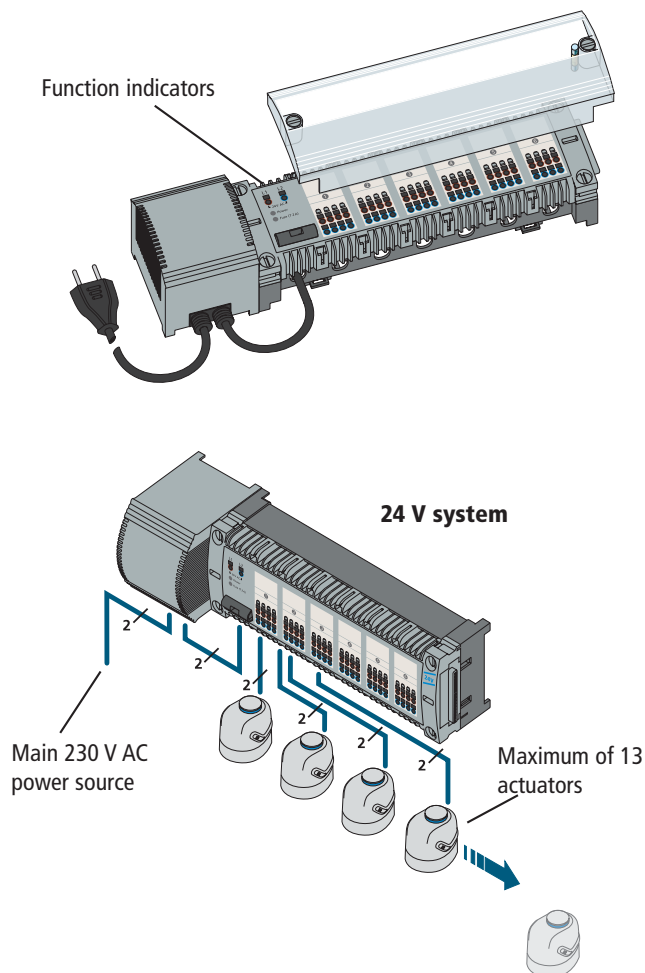
Insert both ends of the KNX cable into the KNX terminal.



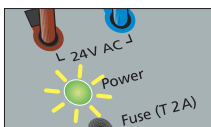
Slide the terminal into the bus connection on the device.

6.0 Description

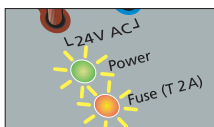
HMT 6 and HMT 12



7.0 Indicator lights



Power light
illuminates when unit is connected to power.



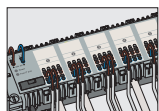
Fuse indicator
illuminates when fuse is blown. System needs to be checked by a qualified specialist.



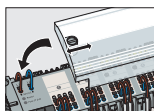
Indicator
illuminates, when zone is operating.

8.0 Commissioning

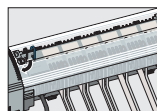
The ETS-database can be found www.theben.de/downloads. Please refer to the handbook for more detailed descriptions of these functions.



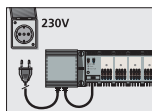
Use the correct connections on the basis.



Fit transparent cover. Orientation of screws must be parallel with junction unit.

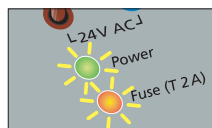


Cover locks into place by turning the screws. Basis is now ready for operation.

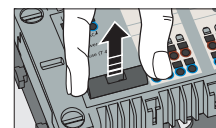


Connect transformer to the power outlet.

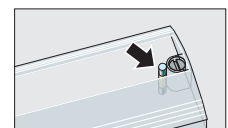
9.0 Changing the fuse



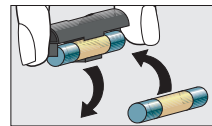
Fuse indicator lit
The unit must be checked by a qualified specialist.



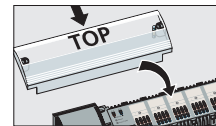
Pull out fuse casing.



Spare fuse is located in transparent cover.



Change the fuse type T 2A.



Do not reverse the transparent cover when reinstalling.

10.0 Technical Data

| | |
|---------------------------|---------------|
| Operating voltage: | 230 V / 24 AC |
| max. power uptake: | 50 W |
| Standard fuse: | T 2A |
| max. number of actuators: | 13 |
| Dimensions (mm) H/W/L: | 70/75/302 |
| Weight incl. transformer: | 1700 g |
| Safety class: | II |
| Degree of protection: | IP 20 |

Wiring requirements:

| | |
|----------------|-------------------------|
| solide wire | 0,5-1,5 mm ² |
| flexible wire* | 1,0-1,5 mm ² |

*Stranded wires for the actuators can be used with the factory-installed ferrules.

The device is appropriate for use under the conditions of usual contamination. Also observe any technical information on the device's nameplate deviating from this! Subject to technical improvements. The devices meet the requirements of the European Directives 73/23/EEG (Low-voltage Directive) and 89/336/EEG Directive.

Ensure when using these devices together with other devices in one system that there is no radio interference caused by the whole system.

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