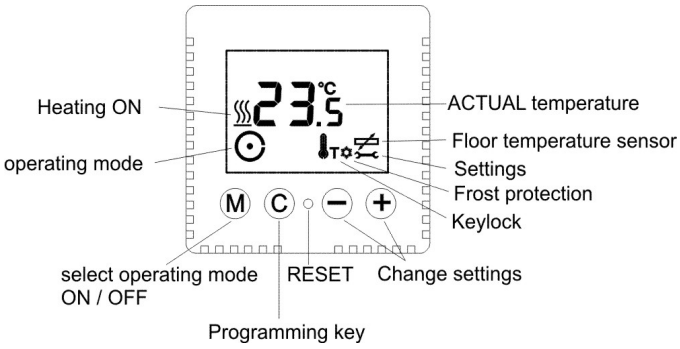
HRT 6155 / Timer



Technical Specifications:

Setting range, approx.:	10 ... 40°C
Mains voltage:	230 V ~ ± 10% , 50 Hz
Switching current (max.), approx.:	12 (4) A
Switching capacity:	2.7 kW
Switching temperature difference:	0.7 K
Temperature sensor:	NTC to DIN 44574 4 m long
Permissible ambient temperature:	-10 ... +40°C
Connecting cables:	2.5 mm ^{2}
Energy efficiency class:	VII = 3,5%

User Guide

Basic function

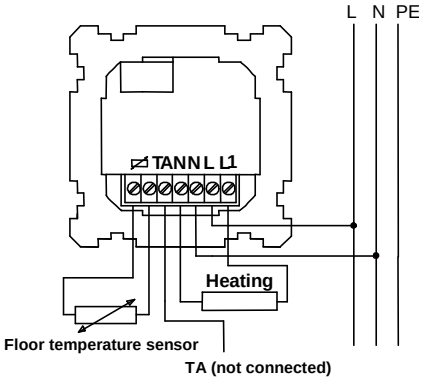
The HRT 6155 / Timer is a floor-temperature controller for the temperature range from 10 and 40°C with timer control.

The target floor temperature can be varied by way of the **+** and **–** keys at any time. During setting, the target temperature is displayed as a digital value. Otherwise, the current room temperature is displayed. The heating time can be programmed once and the timer is started or can be stopped by pressing the M button.

The "M" (= mode) key can be used to set the following operating modes:

OFF
Timer control Clock display icon (operating mode)

Connection and commissioning



ATTENTION: Work on the 230V mains must only be performed by authorised electricians. When the controller is connected to the mains, the relevant safety regulations of the VDE and the local utility companies are to be observed. To control warm-water heaters, it is necessary to use control valves of the type "Closed when not energised".

Installation: The temperature controller is to be mounted into a standard flush-type box Ø 55 mm (acc. to DIN 49073, Part 1). If additional intermediate terminals are used, we recommend use of a deep switch box. The connections are to be made in accordance with the wiring diagram shown on the left. The connecting cables must be straight with approx. 5 mm insulation removed; mounting height approx. 1.5 m above the floor.

Attention: Align the mounting ring on the wallpaper and mount the controller on the switch box using self-tapping screws for flush-type boxes. Then fit the frame onto the mounted box.

The floor temperature sensor is to be placed in a protective tube lying centrally between the heating pads and in the same plane as the pads. The sensor cable must be routed in a separate protective tube, never together with mains-voltage cables.

Attention: In case of error, the sensor cable may carry mains voltage!

Programming

The programming is done with the button C (= Control), as well as + and -.
Programming ends if no entry is made for 10 seconds and can be ended at any point by pressing the "M" button.

Press button C briefly → Setting the heating time (1-60 minutes)

Factory settings:

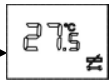
The controller is delivered with the following factory settings:

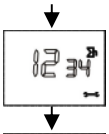
target floor temperature	**22°C**
Frost protection temperature:	**5°C**
Timer / heating time	**60 minutes**

Pressing M and C simultaneously for 5 seconds resets the controller to the factory settings specified above.

System

To get to the system display, press the C key for 10 seconds.

Button C for 10 seconds →  The current floor temperature is displayed.

Press the C key briefly once ↓  The number of operating hours during which the heating was turned on are displayed.

Press the C key briefly once ↓ The software version is displayed.

Display of the room temperature
Display of the current timer time
Display both in alternation of 5 seconds

Change setting with + / - buttons

Child safety lock: Press the + and – keys simultaneously for at least 10 seconds. The controller no longer reacts to any normal key presses. Activation can be identified from the fact that **T** is displayed. To cancel the child safety lock, press the + and – again simultaneously for 10 seconds.

Mains power failure: Up to eight hours of mains power failure are compensated.

Frost protection: The frost protection is active in all modes; it prevents the floor temperature falling below 5°C (factory setting).

Reset: This function is normally not required, except possibly after serious mains faults.
A reset is initiated by briefly pressing the recessed key. The programmed values are maintained, but time of day and day of the week must be set anew.

Troubleshooting:

Diagnosis	Possible cause / remedy
Heating does not work	- Connect / check mains voltage
Display:	
Flashing circle (left screen margin)	- Mains power failure
Er 1	- Room sensor defective
Er 2	- Floor sensor defective or not connected
0.0°C	- Room temperature 0°C or less

Sensor characteristic:

Temp. °C	Resistance kΩ
10	3.66
20	2.43
30	1.66
40	1.15
50	0.82

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