

# USER MANUAL – ELECTRONIC TEMPERATURE CONTROLLER WITH UNDERFLOOR SENSOR

## Characteristics of electronic temperature controller with underfloor sensor

Electronic temperature controller enables maintaining set air temperature or floor temperature automatically. Each circuit constitutes independent heating system to be set individually. It is particularly important in case the electric or water underfloor heating constitutes the only heating system.

## Technical data

Symbol	...MRT-1
Power supply	230V 50Hz
Load range	3200W
Type of work	Continuous
Type of regulation	Smooth
Scope of regulation	5÷40°C
Dimension with external frame	80,0x80,0x59,2
Protection index	IP 20
Probe length	3m

## Warranty terms

The guarantee is provided for a term of twelve months from the date of purchase. The defective controller must be delivered to the producer or to the seller with a purchase document. The guarantee does not cover the fuse exchange, mechanical damage, damages raised by self-repair or improper use.

The warranty period shall be extended by the duration of the repair.

# ASSEMBLY MANUAL

## Installation

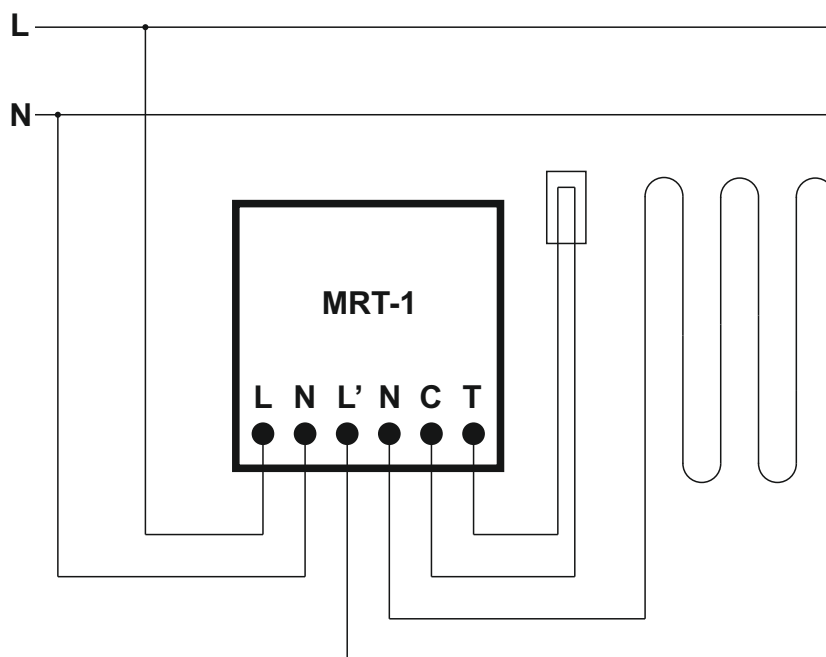
1. Deactivate the main fuses of home installation.
2. Prise the control knob with use of screwdriver and remove it.
3. Push clips on side walls of the adapter with flat screwdriver and remove the adapter of the controller.
4. Push clips on side walls of the adapter with flat screwdriver and remove the control module.
5. Pull out the intermediate frame from the control module of the controller.
6. Connect installation wires and the temperature sensor (the probe) to the power supply module following the diagram below.
7. Assemble the power supply module of the controller in the installation box with resilient clips or fastening screws that are supplied with the box. To provide precise temperature measurement watch that the adapter of the control module is in the bottom part of the power supply module.
8. Assembly the external frame with the intermediate frame.
9. Push slightly the control module to press it into the power supply module.
10. Assembly the adapter and watch the precise click of the clips.
11. Set the minimal and maximal temperature with the use of limiters (standard setting is 5+40°C).
12. Assembly the control knob.
13. Activate the main fuses of home installation. Wyłączyć bezpieczniki sieciowe instalacji domowej.

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## Additional functions

1. The function of maintaining minimal temperature in the room  
Despite the fact that the controller is turned off (OFF mode), eg. during householders longer absence, it still measures the temperature in the room, and in case the temperature reaches the minimal level which is 5°C, heating is activated automatically.
2. Indication of damage and temperature controller deactivation  
If the signalling diode starts emitting pulsing light with the frequency f-10/s, it indicates short-circuit between the wires of the controller.  
If the diode emits pulsing light with the frequency f-1/s, it indicates that one the wires of the controller has been disconnected from the installation clamp.

## Electric connection scheme of the electronic temperature controller



## Accessories required to the electronic controller with underfloor sensor

The electronic temperature controller MRT-1 shall be equipped with an external single (MR-1) or multiple (...MR-2÷ ...MR-5) frame which is available to buy in different colour options made of plastic.

## Note!

Assembly shall be held by a suitably qualified person with deactivated voltage and shall meet the national safety standards.

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## Components of the electronic temperature controller with underfloor sensor

