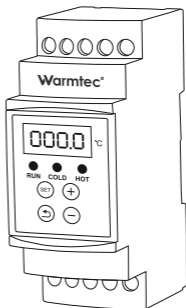


USER manual

Temperature
controller

RSD-10

v_1_03



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Thank you for choosing our product.

See the latest version of the manual at www.warmtec.pl.

1. Product description

DIN-TC type temperature controller is most use in the electric distribution box, it can be easy install on the din rail and with the NTC10K temperature sensor, which is included in the kit. After proper connection, the device allows you to control:

Cooling

- fans,
- refrigerator,
- freezers,
- refrigerated counters,
- other refrigeration equipment.

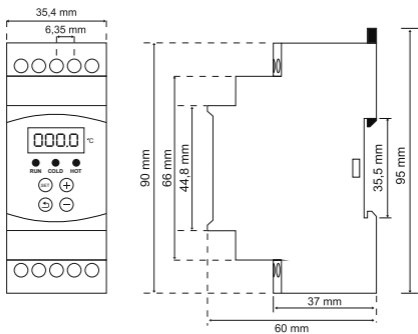
Heating

- electric heaters, storage heaters,
- heating cables, anti-icing systems
- incubators, terrariums, aquariums,
- boilers, heaters, central heating pumps,
- other heating devices.

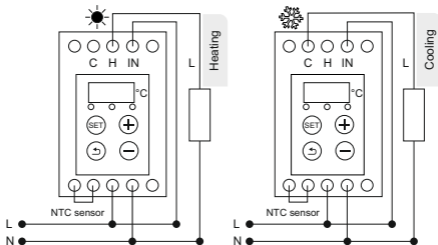
2. Technical specification temperature controller RSD-10

Power supply	~230 V / 50 Hz
Ingress Protection	IP20
Protection against electric shock	II
Measure range	-20°C - +100°C
Pomiar i nastawa z dokładnością	0,1°C
Sampling speed	10 second each time
Working environment	0 - 50°C
Sensor type	NTC 10K (2m cable length)
Sensor ingress Protection	IP44
Installation method	DIN-RAIL
Max. load	10 A

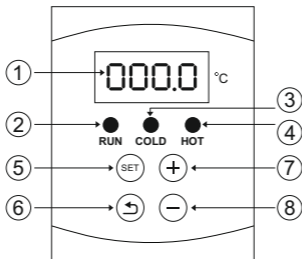
3. Dimensions & drawing







4. Wiring diagram



5. Control panel



1. Display temperature
2. The RUN icon indicates that heating/cooling is on.
3. The COLD icon lights up when the cooling mode is on.
4. The HOT icon lights up when the heating mode is on.
5. Button  allows you to go to the settings of the regulator's operation (press and hold for 5 seconds). This button is also used to confirm the preset settings.
6. Button  allows you to undo the settings or go to the main mode of the displayed temperature.
7. Button  increases the value.
8. Button  decreases de wartość.

6. Error display

“-20” the sensor is not connect to the device

7. Device operation

A) Simple mode

By default, the digital display shows the currently measured temperature. To go to the preview of the set temperature settings, press the SET button. Then press the SET button again and use the +/- buttons to set the appropriate temperature.

Simple mode settings diagram



B) Advanced mode

To start the advanced mode, hold the SET button for 5 seconds, then use the +/- buttons to select the appropriate operating mode and confirm again with the SET button.

- **setting the "HOT" heating mode,**
- **setting the "COLD" cooling mode,**

Advanced mode also allows you to change the following settings:

- **hysteresis value "d",**
- **time delay "delay"**
- **"SC" temperature calibration.**

To change the settings in advanced mode, press the SET button until the appropriate "d", "delay" or "SC" appears on the display.

Then press the SET button again and use the +/- buttons to change the setting values.

Code

Name

Description

C

Cooling mode
(COLD)

Cold mode should be set if you want for the temperature controller to control the operation cooling device.

H

Tryb ogrzewania
(Hot)

Hot mode should be set if you want for the temperature controller to control the operation heating device.

d

Value hysteresis

The temperature controller allows you to adjust the hysteresis value in the range from 0 to 15°C.

dely

Relay operation delay time

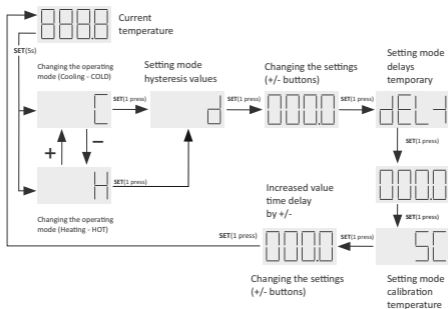
The temperature controller allows you to set the delay of switching on the device in the range of 0-300 seconds.

SC

Temperature deviation

The temperature controller allows you to calibrate temperature indications in the range of +/-15°C.

Advanced mode settings diagram



8. Environmental protection and recycling

INFORMATION ON USED ELECTRICAL AND ELECTRONIC EQUIPMENT

We hereby inform you that the main purpose of the European regulations and the Act of September 11, 2015 on waste electrical and electronic equipment is to reduce the amount of waste generated from equipment, ensure an appropriate level of collection, recovery and recycling of waste equipment and increase social awareness of its harmfulness to the natural environment at every stage of use of electrical and electronic equipment.

Therefore, it should be pointed out that households play a key role in contributing to reuse and recovery, including recycling of waste equipment. The user of equipment intended for households is obliged to return waste electrical and electronic equipment to a collector after its use. However, it should be remembered that products belonging to the group of electrical or electronic equipment should be disposed of at authorized collection points.

You can return your used device to the retailer where you can buy a new one. They will be collected by the CCR REEWEEE Recovery Organization, with which we have signed a contract for the collection of waste equipment.

ATTENTION! DO NOT THROW THE DEVICE INTO DOMESTIC WASTE



IMPORTANT INFORMATION FOR CORRECT DISPOSAL IN ACCORDANCE WITH EC DIRECTIVE 2012/19/EU.

At the end of its useful life, the product must not be disposed of as household waste. It must be delivered to the special collection point of the different local authorities or to a retailer providing this service. Disposing of your household appliance separately avoids possible negative consequences for the environment and health resulting from improper disposal and enables the recovery of component materials to achieve significant energy savings and resources. Reminding you of the need to dispose of household appliances separately, the product is marked with a crossed-out wheeled bin.

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