

Thermostat VR  
1-4-0101-0038



## TECHNICAL DATA

---

Load capacity	10(3)A
Frequency	50/60 Hz
Temperature range	10...30°C
Switching hysteresis	SD ≤ 1 °C
Adjustment accuracy	± 1 °C
Permissible ambient temperature	-10 ... +50 °C
Weight	0,13 kg
Supply voltage	230 V +10 / -15 %
Power consumption	< 4 VA

## FUNCTIONS

---

Two-way thermostats (on/off) with switch contact for automatic control room temperatures and other applications in heating and air conditioning systems

### Application

Room thermostats TR are used for room temperature control.

Typical applications are:

- room temperature control

- control of the following devices: thermal/mechanical actuators, valves  
Zone (normally closed), circulation pumps, fans

Room thermostat for heating or cooling, with switch contact 10(3)A,  
24...230VAC

The room thermostats TR have separate control outputs for heating and cooling.  
When the room temperature drops below the setpoint, the output contact  
the heating will be shorted. When the room temperature exceeds the set value  
the cooling contact will be closed.

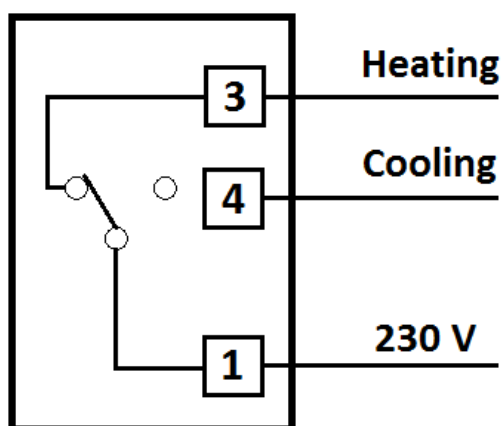
### Properties

Key features of the TR010 room thermostats

- 2-adjustable adjustment (on/off)
- Gas-filled diaphragm

### ELECTRIC DIAGRAM OF THE THERMOSTAT

---



The thermostat can work in configurations:

- heating, 1-3 combination
- cooling 1-4
- connection of three-way valve actuators in on/off/on configuration 1:3-4

### TIPS

---

The thermostat should be installed in places where it is possible to measure air temperature as most accurate and where there is no adverse effect of solar radiation or from other sources of heat or cold. The installation should be made at a height of about 1.5m above the floor. The thermostat can be installed directly on the wall or on commercially available boxes flush-mounted. Service operations (opening the controller) may only be performed by authorized personnel (Note: 230 VAC!). Before opening the casing, disconnect the voltage power.