

TRM2 TRM2S

Room thermostats

for HVAC systems



Room thermostats used in heating, ventilation and air conditioning systems to control the room temperature.

- Adjustment range 5 ... 30 °C
- Contact rating AC 250 V / heating 10(3) A or cooling 3(1) A
- TRM2S : additional on/off -switch

Type summary

Two different types are available, one of which has an on/off switch:

TRM2 Room thermostat with setpoint adjuster

TRM2S Room thermostat with setpoint adjuster and on/off switch

Ordering

Please specify quantity, name and type designation when ordering.

Example:

1 room thermostat, type TRM2

Technical design

The sensing element is a bimetal strip. When the temperature falls to the selected setpoint, the bimetal strip causes the electrical contact to switch over.

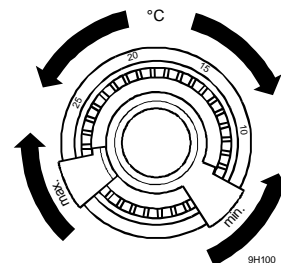
The thermostat can be operated either with or without thermal feedback. The switching differential Δt will change from 5 K to 1 K accordingly.

- without thermal feedback ± 5 K
- with thermal feedback ± 1 K

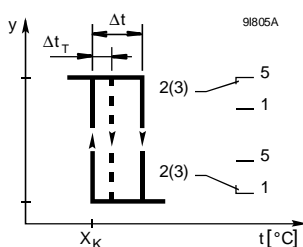
Adjustments

The required temperature can be selected by rotating the setpoint adjuster. A maximum and minimum range limit can be set by moving the two sliding stops at the back of the adjuster.

Adjustment range for setpoint X_K 5 ... 30 °C.



Operating diagram



Mechanical design

The housing of the TRM2... room thermostats is made of plastic. A captive screw, invisible from the front, allows easy fitting of the cover. Cable is introduced through an opening in the rear plate, or through the top.

Mounting notes

Mounting instructions are enclosed with the room thermostat (Ref. 35200).

The sensor should be mounted at a height of approximately 1.5 m above floor level and at least 0.5 m from the corner of the room. Do not install the sensor in a position where it will be exposed to direct sunlight. Avoid locations where there may be undue influence from heat or moisture, such as near doors, windows, chimneys etc., and locations with inadequate air circulation (in recesses, behind furniture or curtains etc.).

Technical data

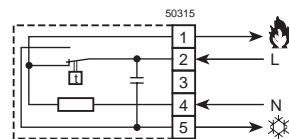
Setpoint	5 ... 30 °C
Switching differential Δt with thermal feedback	± 5 K ± 1 K
Output	SPDT
Contact rating	Max. AC 250 V
– Heating (Terminal 1)	Max. 10 A resistive, max. 3 A inductive
– Cooling (Terminal 5)	Max. 3 A resistive, max. 1 A inductive
Protection class	II (VDE*)
Protection standard	IP30 to IEC529
Radio interference suppression	in accordance with VDE 0875
Ambient temperature:	
– Operation	0 ... 50 °C
– Storage / transport	– 20 ... 50 °C
Weight (incl. packaging)	0.1 kg
Conformity	CE requirements

* German Association of Electrical Engineers

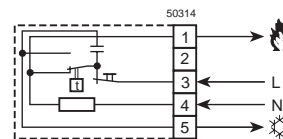
Connection terminals



The thermostat can be operated with thermal feedback (neutral wire on Terminal 4).

TRM2



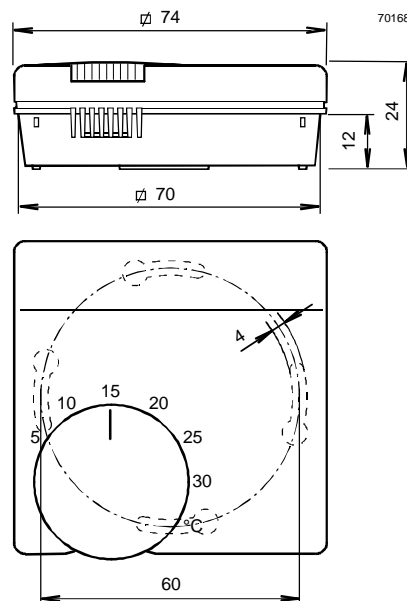
TRM2S



 = Heating
 = Cooling

Dimensions

All dimensions in mm



Caution :
Observe the technical data for
the switching contacts :
AC 250 V / 10(2) A

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