

## RTM1

## Room temperature sensors - active



### Summary

The RTM1 temperature sensors are electronic room sensors for universal use. They provide output signal 0...10V or 4...20 mA DC.

### Applications

- HVAC systems – room temperature measuring
- room temperature monitoring and logging

### Functions

The sensor uses a Pt1000 sensing element, the signal of which is processed, converted to voltage or current and available at the screw terminals. Temperature range is -30 to 70 °C. Other temperature ranges are optional (see table). Do not exceed maximum environment temperature!

The sensors are intended for operating in a normal and chemically non-aggressive environment. They do not need any servicing nor maintenance. Make sure that sufficient air circulation is provided.

The sensors are mounted with 4 screws on wall or on a flush-mounted junction box with 55 mm in diameter.

### Technical data

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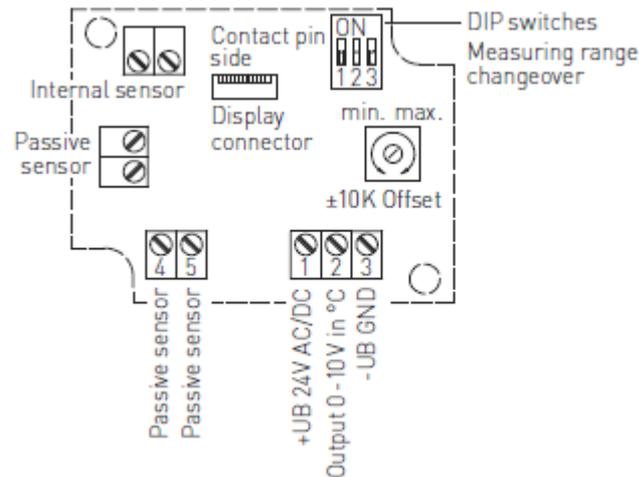
Power	24 V AC/DC for output 0-10 V 15–36 V DC for output 4...20 mA (depending on working resistance)
Measuring range	-30 ... 70 °C
Load	-U: min. 5 kΩ -I: max. 500 Ω (at 24V; $R=(U-14 V)/0.02 A$ )
Environment temperature	-30...70 °C
Protection class	IP30
Terminals	screw terminals for wires 0,14 – 1,5 mm <sup>2</sup>
Cover	ABS, RAL9010 white
Weight	< 0,1 kg
Dimensions	see below

## Sensor types

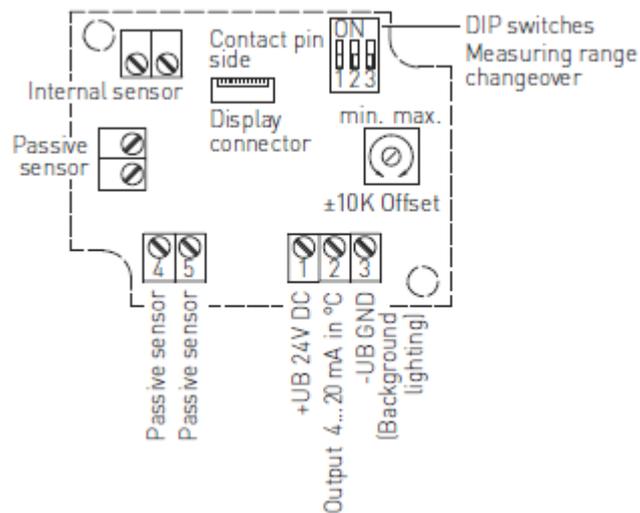
Type	Output	LCD Display
RTM1-U	0...10 V	no
RTM1-I	4...20 mA	no
RTM1-U,D	0...10 V	yes
RTM1-I,D	4...20 mA	yes

## Terminals

RTM-U

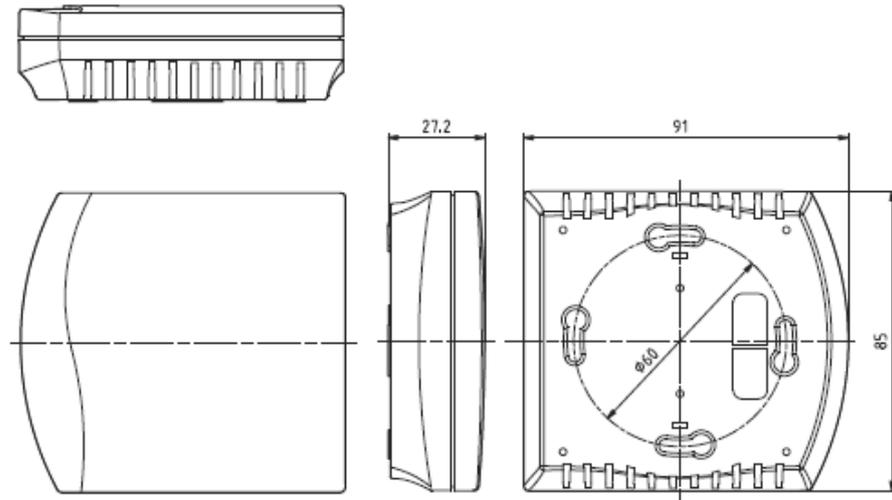


RTM-I



Measuring ranges (adjustable)	DIP 1	DIP 2	DIP 3
-20°C...150°C	ON	ON	ON
-50°C...50°C	OFF	ON	ON
-20°C...80°C	ON	OFF	ON
-30°C...60°C	OFF	OFF	ON
0°C...40°C	ON	ON	OFF
0°C...50°C	OFF	ON	OFF
0°C...100°C	ON	OFF	OFF
0°C...150°C	OFF	OFF	OFF

## Dimensions



07/2013 Subject to technical changes.