

**Room sensor Temperature**

For measuring the temperature in the room.  
The room units can be seamlessly connected to existing third-party controllers.


**Type Overview**

Type	Output signal
01RT-1B-0	Pt1000
01RT-1C-0	Ni1000
01RT-1D-0	Ni1000TK5000
01RT-1F-0	NTC1k8
01RT-1L-0	NTC10k (10k2)
01RT-1M-0	NTC10k Pre (10k3)
01RT-1Q-0	NTC20k

**Technical data**

	<b>Electrical data</b>	Electrical connection	Spring loaded terminal 0.5...1.5 mm <sup>2</sup>
		Cable entry	Wire openings at the backside (for In-wall wiring) and top-/bottom side (for On-wall wiring)
	<b>Functional data</b>	Application	Air
		Output signal passive temperature	Pt1000 Ni1000 Ni1000TK5000 NTC1k8 NTC10k (10k2) NTC10k Pre (10k3) NTC20k
	<b>Measuring data</b>	Measured values	Temperature
<b>Specification Temperature</b>		Measuring range	0...50°C [32...122°F]
		Measuring current	Pt1000: <0.3 mA @ 0°C [32°F] Ni1000 (JCI): <5 mA @ 21°C [70°F] Ni1000TK5000: <0.3 mA @ 0°C [32°F] NTC1k8: <0.1 mA @ 25°C [77°F] NTC10k (10k2): <2 mA @ 25°C [77°F] NTC10k Pre (10k3): <2.7 mA @ 25°C [77°F] NTC20k: <0.5 mA @ 25°C [77°F]
		Accuracy temperature passive	Passive sensors depending on used type Pt.. : Class B, ±0.3°C @ 0°C [±0.5°F @ 32°F] Ni.. : ±0.4°C @ 0°C [±0.7°F @ 32°F] NTC1k8 : ±0.5°C @ 25°C [±0.9°F @ 77°F] NTC.. : ±0.2°C @ 25°C [±0.35°F @ 77°F]
		Time constant τ (63%) in the room	Typical 360 s

**Technical data**

<b>Specification Temperature</b>	Wall coupling factor	35 %
<b>Safety data</b>	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	Degree of protection IEC/EN	IP30
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-9
	Quality Standard	ISO 9001
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	0...50°C [32...122°F]
	Storage temperature	-20...60°C [-4...140°F]
<b>Materials</b>	Housing	PC, white, RAL 9003

**Safety notes**


This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

**Remarks**

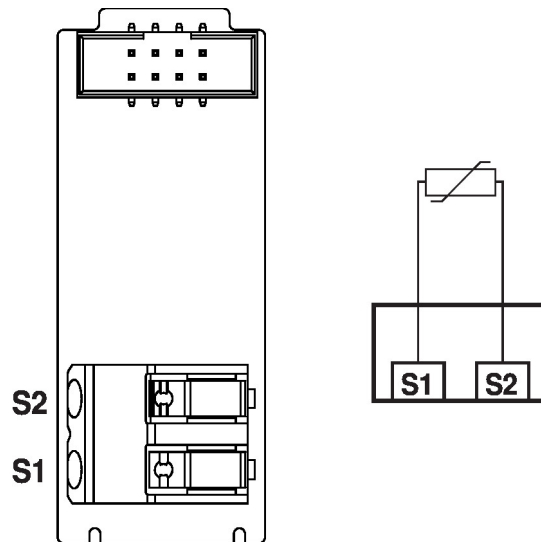
**General remarks concerning sensors** Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy. So the supply current should not be higher than the measuring current values specified in this data sheet.

When using lengthy connecting cables (depending on the cross section used), the cable resistance must be taken into account. The lower the impedance of the sensor used, the greater the effect of the line resistance on the measurement, because it generates an offset.

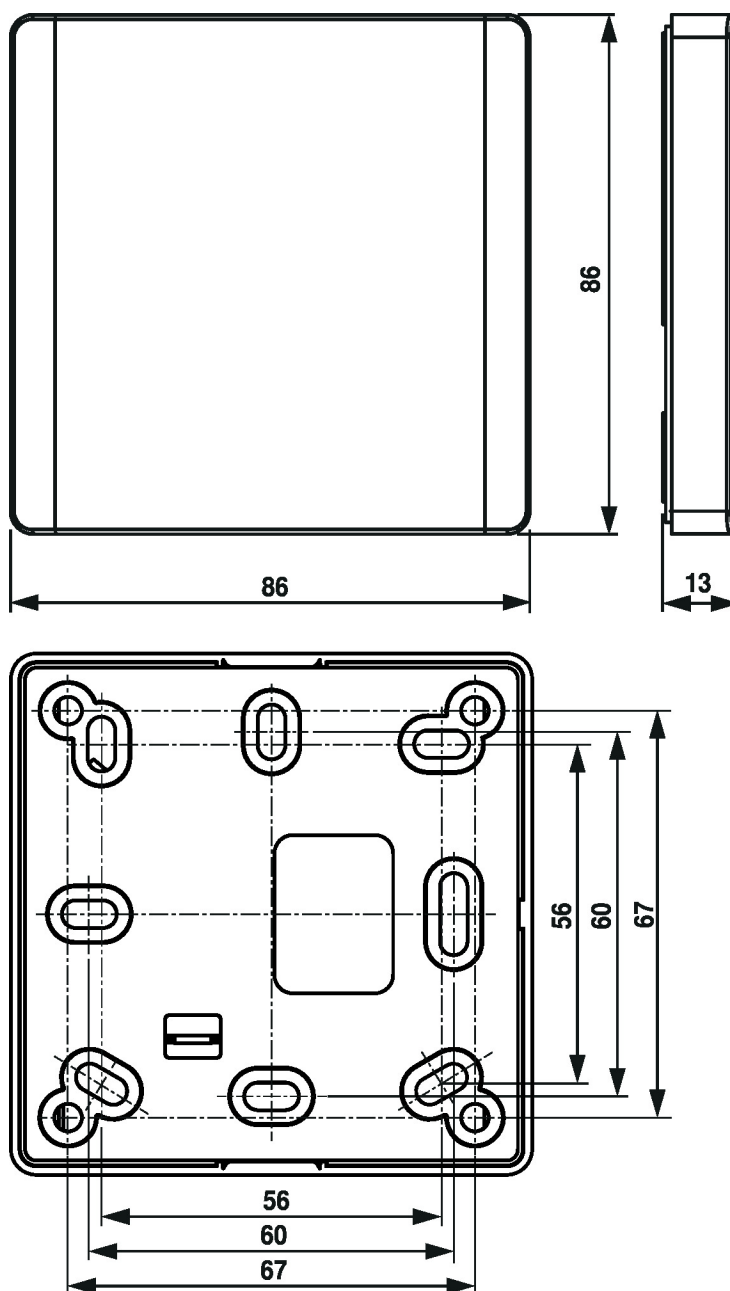
**Parts included**

Screws

## Wiring diagram



Dimensions



Further documentation

- Installation instructions
- Resistance characteristics