

#### Room Operating Unit Temperature

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

## **Technical data sheet**

### P-01RT-1..





#### **Type Overview**

Туре	Output signal	Potentiometer
P-01RT-1B-0	Pt1000	0.71.3 kOhm
P-01RT-1F-0	NTC1k8	0.71.3 kOhm
P-01RT-1L-0	NTC10k (10k2)	2.58.5 kOhm
P-01RT-1M-0	NTC10k Pre (10k3)	2.58.5 kOhm

#### **Technical data**

Electrical data	Electrical connection	Spring loaded terminal 0.51.5 mm <sup>2</sup>
	Cable entry	Wire openings at the backside (for In-wall wiring) and top-/bottom side (for On-wall wiring)
Functional data	Application	Air
	Output signal passive temperature	Pt1000 NTC1k8 NTC10k (10k2) NTC10k Pre (10k3)
Measuring data	Measured values	Temperature
	Measuring range temperature	050°C [32122°F]
	Accuracy temperature passive	Passive sensors depending on used type Pt : Class B, ±0.3°C @ 0°C [±0.5°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]
	Accuracy potentiometer	typical ±15%
	Measuring current	Pt1000: <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]
	Time constant τ (63%) in the room	Typical 360 s
	Wall coupling factor	35 %
Materials	Housing	PC, white, RAL 9003
Safety data	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	050°C [30120°F]
	Storage temperature	-2060°C [-5140°F]
	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-9
	Degree of protection IEC/EN	IP30
	Quality Standard	ISO 9001



# **Technical data sheet**

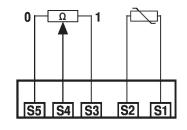
P-01RT-1.

$\triangle$	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 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.
Scope of delivery	
	Screws

## Wiring diagram

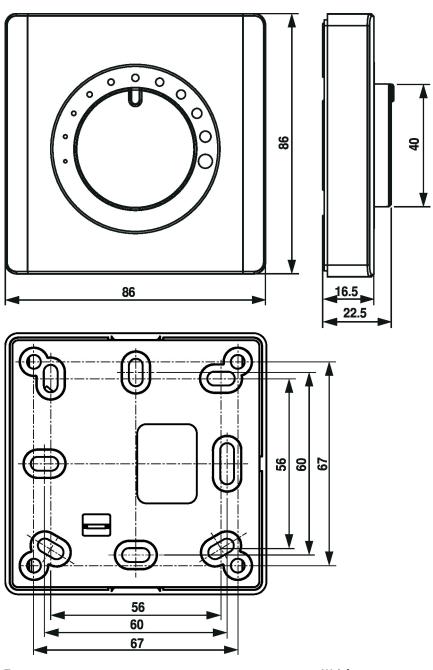
<b>S</b> 5		
<b>S</b> 4		
<b>S</b> 3		
S2		
<b>S</b> 1		
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Dimensions



Туре	Weight
P-01RT-1B-0	0.06 kg
P-01RT-1F-0	0.06 kg
P-01RT-1L-0	0.06 kg
P-01RT-1M-0	0.06 kg