

**Room sensor Temperature**

Passive wall mount temperature sensors with setpoint adjustment. Sleek design incorporating a manual override button. Available with four different outputs to be seamlessly connected to existing third-party controllers.



5-year warranty


**Type Overview**

Type	Output signal	Potentiometer
P-01RT-5B-0	Pt1000	0...1 kOhm
P-01RT-5L-0	NTC10k (10k2)	0...10 kOhm
P-01RT-5M-0	NTC10k3 (Precon)	0...10 kOhm
P-01RT-5Q-0	NTC20k	0...10 kOhm

**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 NTC10k (10k2) NTC10k3 (Precon) NTC20k	
	Measured values	Temperature	
	Measuring range temperature	32...122°F [0...50°C]	
<b>Measuring Data</b>	Accuracy temperature passive	Passive sensors depending on used type Pt.. : ±0.5°F @ 32°F [±0.3°C @ 0°C] NTC.. : ±0.35°F @ 77°F [±0.2°C @ 25°C]	
	Accuracy potentiometer	typical ±12%	
	Measuring current	Pt1000: <0.3 mA @ 32°F [0°C] NTC10k2: <2 mA @ 77°F [25°C] NTC10k3: <2.7 mA @ 77°F [25°C] NTC20k: <0.5 mA @ 77°F [25°C]	
	Time constant τ (63%) in the room	Typical 360 s	
	Wall Coupling Factor	35 %	
	<b>Materials</b>	Housing	PC, white, RAL 9003
	<b>Safety Data</b>	Ambient humidity	Max. 95% RH, non-condensing
Ambient temperature		30...120°F [0...50°C]	
Storage temperature		-4.0...140°F [-20...60°C]	
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	
Degree of protection NEMA/UL		NEMA 1	
Quality Standard	ISO 9001		

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. Unauthorized 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 authorized 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.

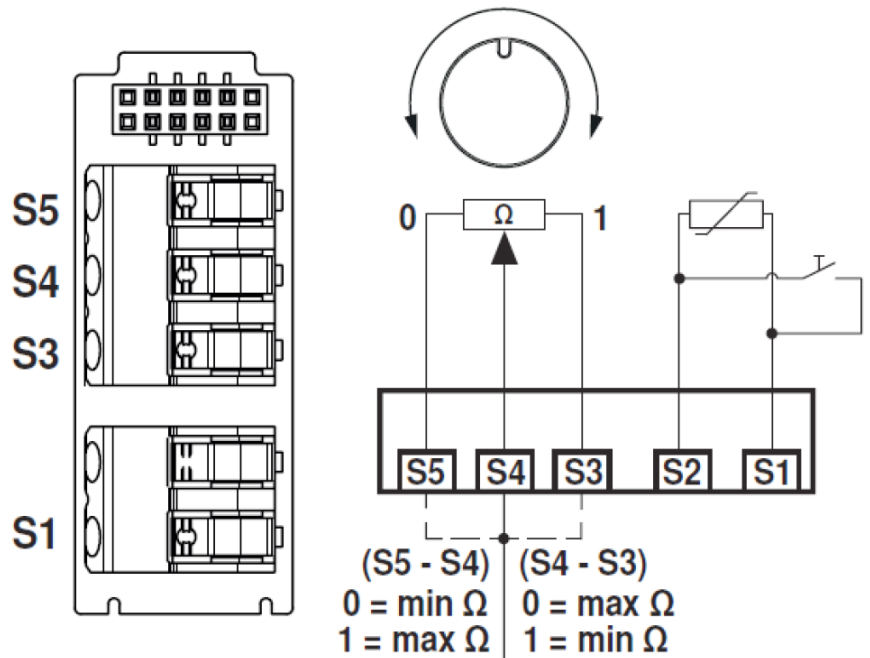
**Manual override**

Once the Manual Override button is pressed, the thermistor within the room sensor is temporarily shorted out and a signal is sent to the controller. The DDC programmer can utilize the signal to provide an array of HVAC sequence options.

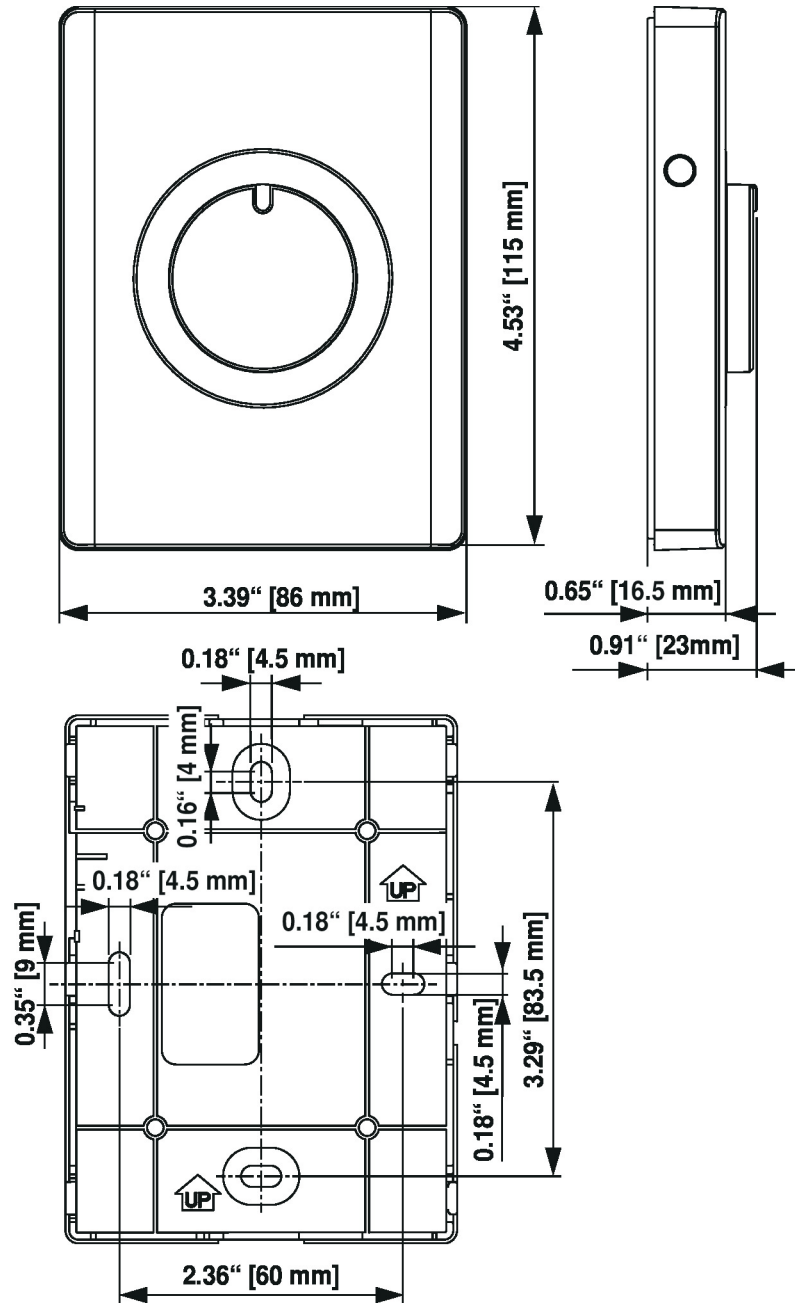
Scope of delivery

Screws

Wiring Diagram



## Dimensions



Type	Weight
P-01RT-5B-0	0.24 lb [0.11 kg]
P-01RT-5L-0	0.24 lb [0.11 kg]
P-01RT-5M-0	0.24 lb [0.11 kg]
P-01RT-5Q-0	0.24 lb [0.11 kg]