

Type Overview

## **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.







		Туре	Output signal	Potentiometer	
		P-01RT-5B-0	Pt1000	01 kOhm	
		P-01RT-5L-0	NTC10k (10k2)	010 kOhm	
		P-01RT-5M-0	NTC10k3 (Precon)	010 kOhm	
		P-01RT-5Q-0	NTC20k	010 kOhm	
Technical data					
	Electrical Data	Electrical connection	Spring loaded ter	minal 0.51.5 mm²	
		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 NTC10k (10k2) NTC10k3 (Precon NTC20k	)	
	Measuring Data	Measured values	Temperature		
		Measuring range temperature	32122°F [050°	°C]	
		Accuracy temperature passive	Pt: ±0.5°F @ 32°	lepending on used type °F [±0.3°C @ 0°C] 77°F [±0.2°C @ 25°C]	
		Accuracy potentiometer	typical ±12%		
		Measuring current	Pt1000: <0.3 mA ( NTC10k2: <2 mA ( NTC10k3: <2.7 m, NTC20k: <0.5 mA	@ 77°F [25°C] A @ 77°F [25°C]	
		Time constant $\tau$ (63%) in the room	Typical 360 s	<u> </u>	
		Wall Coupling Factor	35 %		
	Materials	Housing	PC, white, RAL 90	03	
	Safety Data	Protection class IEC/EN	III, Protective Ext	ra-Low Voltage (PELV)	
		Degree of protection IEC/EN	IP30		
		Degree of protection NEMA/UL	NEMA 1		

**CE Marking** 

IEC/EN 60730-1 and IEC/EN 60730-2-9

Max. 95% RH, non-condensing

0...50°C [32...122°F]

EU Conformity

Certification IEC/EN

Ambient temperature

Quality Standard
Ambient humidity



# **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.

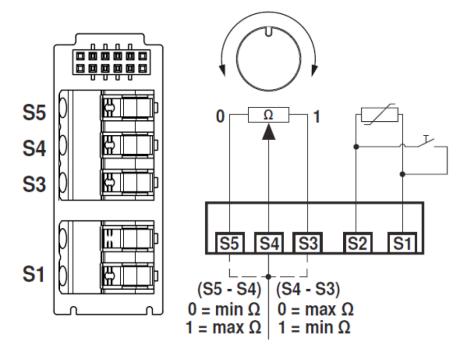
#### Manual override

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

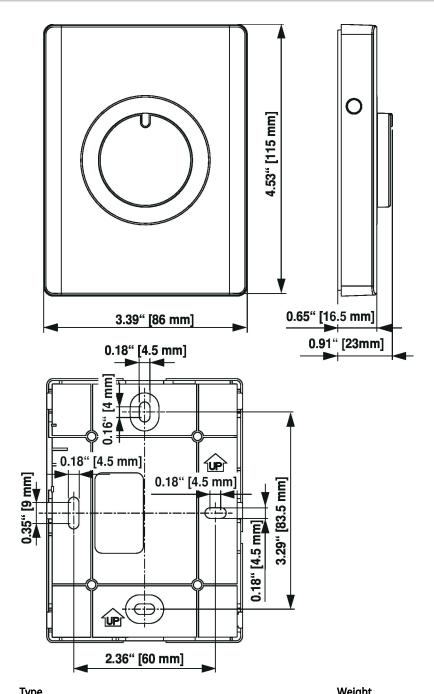
Screws

# **Wiring Diagram**





# **Dimensions**



туре	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]