

RS-PT 100 – Passive room temperature sensor



RS-PT 100 is a passive room temperature sensor for measuring indoor room temperature. The sensor has a modern plastic housing with a smooth snap-on cover. The sensor is suitable for surface installation and on a flush mounting box.

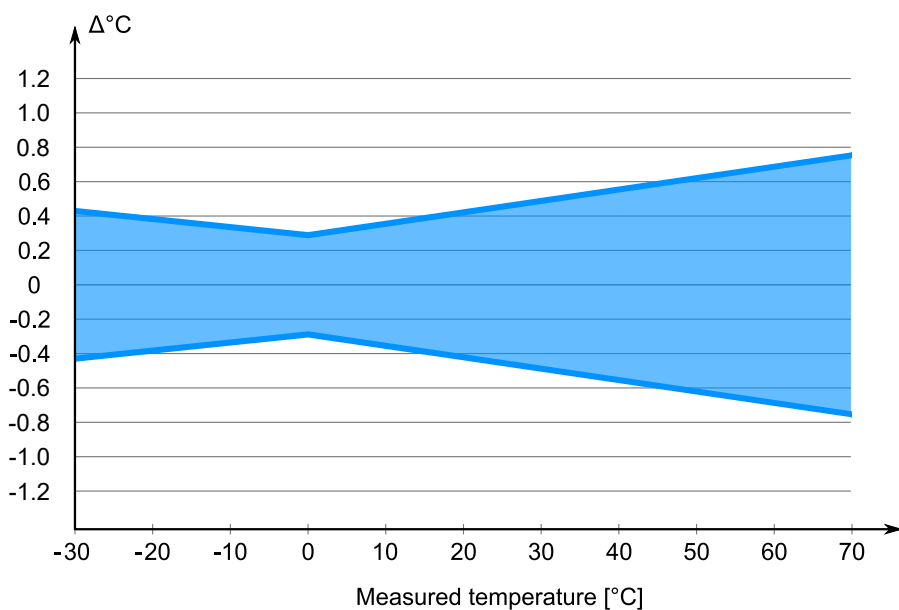
Temperature is detected by a Pt100 element with a nominal resistance of 100 Ω at 0 °C.

You can do the wiring through the back of the housing as flush mounting or from top or bottom of the housing in case of surface mounting.

Technical specifications

Property	Value
Sensor	Pt100 EN 60751B
Range	-30...70 °C
Accuracy	±0.3 °C (at 0 °C) See the detailed temperature measurement accuracy from the chapter Detailed measurement accuracy on page 2.
Wiring terminals	Screw terminals, 1.5 mm ²
Appliance class (IEC 60664-1)	III
Operating conditions	
Temperature	-30...70 °C
Humidity	0...95 %rH (non-condensing)
Storage temperature	-30...70 °C
Housing	
Protection class	IP30
Materials	PC plastic
Mounting	on the wall surface or on a flush mounting box (60 mm hole distance)
Dimensions (w x h x d)	97 x 97 x 26 mm
 	Refer to the EU Declaration of Conformity or the UK Declaration of Conformity for compliance information. You can find the declarations on this product's page at www.produal.com .

Detailed measurement accuracy

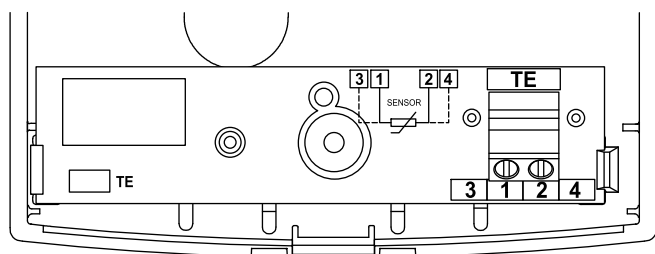


Resistance at different temperatures

°C	Ω
-30	88.22
-25	90.19
-20	92.16
-15	94.12
-10	96.09
-5	98.04
0	100.00
5	101.95
10	103.90
15	105.85
20	107.79

°C	Ω
25	109.73
30	111.67
35	113.61
40	115.54
45	117.47
50	119.40
55	121.32
60	123.24
65	125.16
70	127.07

Wiring



1	TE	The temperature is measured as a resistance value between these connectors.
2		

Ordering information

	Type	Product number	Description
	RS-PT 100	5501W50000	PT 100 room temperature sensor, white
	RSB-PT 100	5501B50000	PT 100 room temperature sensor, black
	VP-PROX	9000460	Protective casing for Proxima room products

Dimensions

