

RS-NTC 1.8 – Passive room temperature sensor



RS-NTC 1.8 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.

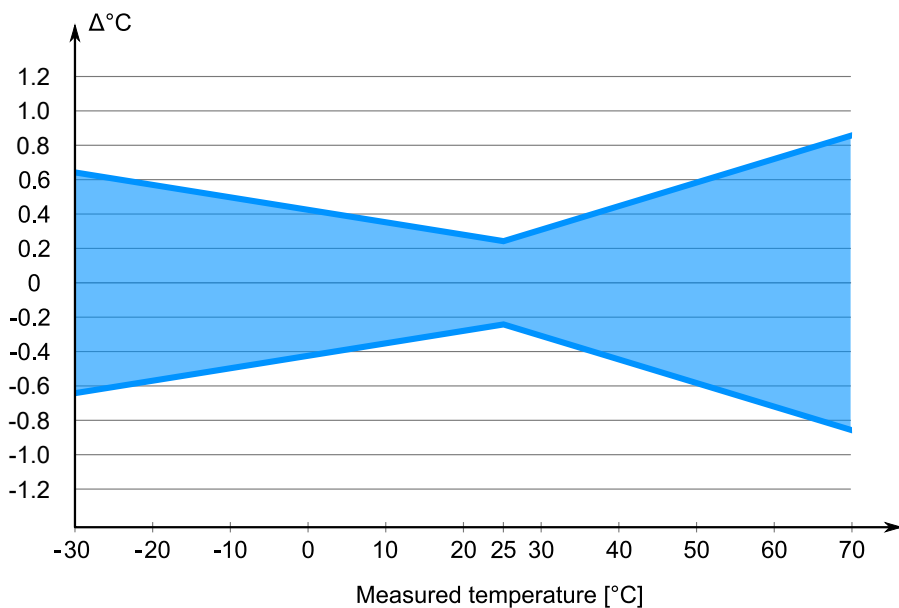
Temperature is detected by an NTC 1.8 element with a nominal resistance of 1.8 kΩ at 25 °C.

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	1.8 kΩ NTC element
Range	-30...70 °C
Accuracy	±0.2 °C (at 25 °C) See the detailed temperature measurement accuracy from the chapter Detailed measurement accuracy on page 2.
Beta value 25/85	3500 K ±1 %
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

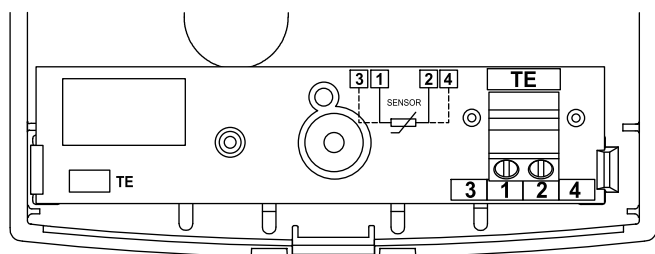


Resistance at different temperatures

°C	Ω
-30	22288
-25	17073
-20	13192
-15	10276
-10	8068
-5	6383
0	5085
5	4079
10	3294
15	2677
20	2189

°C	Ω
25	1800
30	1489
35	1238
40	1034
45	869
50	733
55	622
60	529
65	453
70	389

Wiring



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

Ordering information

	Type	Product number	Description
	RS-NTC 1.8	5501W60000	NTC 1.8 room temperature sensor, white
	RSB-NTC 1.8	5501B60000	NTC 1.8 room temperature sensor, black
	VP-PROX	9000460	Protective casing for Proxima room products

Dimensions

