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DATA SHEET

RS

Produal

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RS-NI 1000 - Passive room temperature sensor



RS-NI 1000 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.

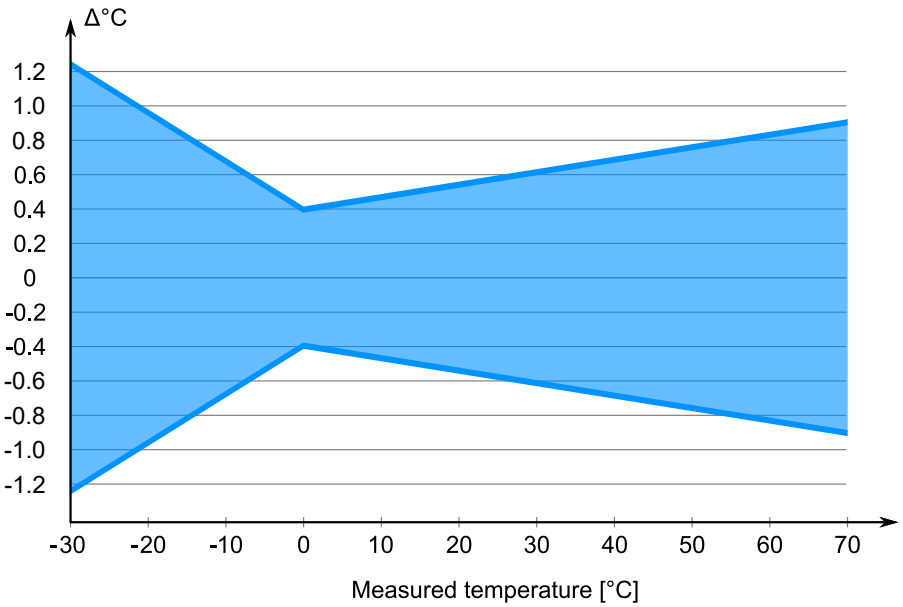
Temperature is detected by an Ni1000 element with a nominal resistance of 1000 Ω at 0 °C.

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	1 kΩ Ni element, TCR = 6180 ppm/K, DIN 43760
Range	-30...70 °C
Accuracy	±0.4 °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
CE UKCA	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

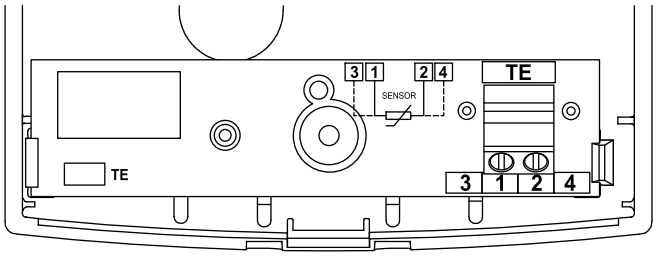


Resistance at different temperatures

°C	Ω
-30	842
-25	867
-20	893
-15	919
-10	946
-5	973
0	1000
5	1028
10	1056
15	1084
20	1112

°C	Ω
25	1141
30	1171
35	1200
40	1230
45	1260
50	1291
55	1322
60	1353
65	1385
70	1417

Wiring



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

Ordering information

	Type	Product number	Description
	RS-NI 1000	5501W80000	NI 1000 room temperature sensor, white
	RSB-NI 1000	5501B80000	NI 1000 room temperature sensor, black
	VP-PROX	9000460	Protective casing for Proxima room products

Dimensions

