

AVERAGE TEMPERATURE SENSOR TEKA NI 1000

TEKA NI 1000 sensor is designed for detecting average temperatures in a large air duct.

Temperature is detected by four Ni 1000 sensor elements with a nominal resistance of 1 k Ω at 0 °C. Thanks to the special mechanical construction, the sensor is able to detect temperature throughout its entire length.

Housing is made of heat-resistant plastic. The cover and the terminal blocks are tilted 45° to provide easy installation.

Sensor is mounted to the duct by using an adjustable flange and springs.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	1760	25	1141
100	1618	20	1112
90	1549	15	1084
80	1483	10	1056
75	1450	5	1028
70	1417	0	1000
65	1385	-5	973
60	1353	-10	946
55	1322	-15	919
50	1291	-20	893
45	1260	-25	867
40	1230	-30	842
35	1200	-40	791
30	1171	-50	743



Technical data:

sensors	4 x Ni 1000, 1 k Ω at 0 °C
mounting	\varnothing 10 mm hole and flange, 3 springs
housing	plastic (< 120 °C)
protection class	IP54, cable entry down
cable entry	M16
range	-50...+70 °C
accuracy	\pm 0.4 °C (0 °C)
meas. element	3 m
accessories (included)	3 pcs mounting springs
materials	PBT, PC, PA, stainless steel

Ordering guide:

Model	Product number	Description
TEKA NI 1000	117C130	average temperature sensor, 3 m 1 k Ω at 0 °C

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).