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DATA SHEET

TEKA

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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 kΩ 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 kΩ at 0 °C
mounting	∅ 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	±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 kΩ 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).

Information is subject to change without prior notice.