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DATA SHEET

TEKA-500

Produal

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measure-be sure.

AVERAGING TEMPERATURE SENSOR TEKA NI 1000-500

TEKA NI 100-500 sensor is made for detecting the averaging temperature in a large air duct.

Temperature is detected by four Ni 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 plastics. Screw cover and terminal blocks tilted to 45° make an easy installation.

Sensor is mounted to the duct by means of an adjustable flange.



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:

sensor	4 x 1 kΩ Ni element
sleeve	∅ 8 mm x 500 mm
duct mounting	adjustable flange
housing	plastic (< 120 °C)
protection class	IP54, cable entry or stem down
cable gland	M16
range	-50…+70 °C
accuracy	±0.4 °C (at 25 °C)

Ordering guide:

Model	Product number	Description
TEKA NI 1000-500	117C170	averaging temperature sensor, 500mm 1 kΩ at 0 °C

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

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