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DATA SHEET

TEKV

Produal

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FROST GUARD SENSOR TEKV NI 1000

TEKV NI 1000 temperature sensor is designed for automatic HVAC systems to detect heating coil temperatures (= return water).

Temperature is detected by a Ni sensor element with a nominal resistance of 1 kΩ at 0 °C.

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

Sensor is installed to the coil by using a joint with R1/4” thread. Mounting depth can be adjusted up to 200 mm.



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	Ni 1000 element, 1 kΩ at 0 °C
mounting	R 1/4” thread
stem	4 mm x 200 mm
housing	plastic (< 120 °C)
protection class	IP54, stem or cable gland downwards
cable entry	M16
range	-50…+120 °C
accuracy	±0.4 °C (at 0 °C)
time constant	2.5 s
pressure rating	PN16
material	PBT, PC, PA, acid proof steel

Ordering guide:

Model	Product number	Description
TEKV NI 1000	117C120	frost guard sensor 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).

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