

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 k Ω 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 k Ω 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 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).