

FROST GUARD SENSOR TEKV NTC 2.2

TEKV NTC 2.2 temperature sensor is designed for automatic HVAC systems to detect heating coil temperatures (= return water).

Temperature is detected by a NTC sensor element with a nominal resistance of 2.2 k Ω at 25 °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	90	25	2252
100	153	20	2813
90	207	15	3538
80	283	10	4482
75	334	5	5718
70	395	0	7353
65	469	-5	9533
60	560	-10	12 460
55	673	-15	16 428
50	811	-20	21 860
45	984	-25	29 398
40	1200	-30	39 908
35	1471	-40	75 953
30	1814	-50	151 470



Technical data:

sensor	NTC 2.2 element, 2.2 k Ω at 25 °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	±0.25 °C (at 25 °C)
time constant	2.5 s
pressure rating	PN16
material	PBT, PC, PA, acid proof steel

Ordering guide:

Model	Product number	Description
TEKV NTC 2.2	1172120	frost guard sensor 2.2 k Ω at 25 °C

Products fulfill 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).