

FROST GUARD SENSOR TEKV NTC 10-AN

TEKV NTC 10-AN 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 10 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	483	25	10 000
100	817	20	12 268
90	1084	15	15 136
80	1458	10	18 787
75	1700	5	23 462
70	1990	0	29 490
65	2339	-5	37 316
60	2760	-10	47 549
55	3271	-15	61 030
50	3893	-20	78 930
45	4656	-25	102 890
40	5594	-30	135 233
35	6754	-40	239 831
30	8197	-50	441 667



Technical data:

sensor	NTC 10-AN element, 10 k Ω at 25 °C
mounting	R 1/4" thread
stem	\varnothing 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	\pm 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 10-AN	117H120	frost guard sensor 10 k Ω at 25 °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).