

FROST GUARD SENSOR TEKV NTC 10-C

TEKV NTC 10-C 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	597	25	10 000
100	973	20	12 090
90	1266	15	14 690
80	1668	10	17 960
75	1924	5	22 050
70	2228	0	27 280
65	2588	-5	33 900
60	3020	-10	42 470
55	3536	-15	53 410
50	4160	-20	67 770
45	4911	-25	86 430
40	5827	-30	111 300
35	6940	-40	-
30	8313	-50	-



Technical data:

sensor	NTC 10-C element, 10 k Ω at 25 °C
mounting	R 1/4" thread
stem	Ø 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 10-C	117M120	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).