

FROST GUARD SENSOR TEV NTC 10

TEV NTC 10 temperature sensor is designed for automatic HVAC systems for monitoring air-heating radiators against frost.

Temperature is detected by a NTC thermistor with a nominal resistance of 10 kohm /25 °C.

Sensor stem is made of stainless steel for prolonged life.

Sensor is installed to the radiator by means of a joint with R1/4" thread. Mounting depth can be adjusted to max. 210 mm.

Time constant of the sensor is about 2,5 seconds.



Technical data:

Sensor	10 kΩ NTC -thermistor
Mounting	R 1/4" thread
Stem	4 mm x 200 mm
Connecting cord	∅ 2,8 mm x 2 m
Range	-50...120 °C
Accuracy	± 0,2 °C (at 25 °C)
Time constant	ca 2,5 s
Pressure rating	PN 16

Temperature / resistance -table:

LT °C	NTC 10 kΩ	LT °C	NTC 10 kΩ
120	389.0	25	10000.0
100	680.0	20	12490.0
90	917.7	15	15710.0
80	1258.0	10	19900.0
75	1480.0	5	25400.0
70	1752.0	0	32650.0
65	2082.0	-5	42340.0
60	2488.0	-10	55330.0
55	2968.0	-15	72980.0
50	3603.0	-20	97070.0
45	4368.0	-25	130400.0
40	5327.0	-30	177000.0
35	6532.0	-40	336500.0
30	8057.0	-50	670100.0

Ordering guide:

Model	Product number	Description
TEV NTC10	1175020	frost guard sensor 10 kohm / 25 °C
TEV NTC10-400	1175021	frost guard sensor 10 kohm / 25 °C length 400 mm

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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