

FROST GUARD SENSOR TEV NTC 20

TEV NTC 20 temperature sensor is designed for automatic HVAC systems for monitoring air-heating radiators against frost.

Temperature is detected by a 20 k Ω NTC thermistor with a nominal resistance of 20 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	20 k Ω NTC -thermistor
Mounting	R 1/4" thread
Stem	4 mm x 200 mm
Connecting cord	\varnothing 2,8 mm x 2 m
Range	-50...120 °C
Accuracy	\pm 0,2 °C (at 25 °C)
Time constant	about 2,5 s
Pressure rating	PN 16

Temperature / resistance -table:

LT °C	NTC 20 k Ω	LT °C	NTC 20 k Ω
120	609	25	20000
100	1114	20	25350
90	1541	15	32346
80	2166	10	41567
75	2585	5	53812
70	3099	0	70203
65	3732	-5	92322
60	4517	-10	122431
55	5494	-15	163777
50	6718	-20	221088
45	8259	-25	301297
40	10211	-30	414698
35	12698	-40	810861
30	15887	-50	1659082

Ordering guide:

Model	Product number	Description
TEV NTC20	1176020	frost guard sensor 20 kohm / 25 °C
TEV NTC20-400	1176021	frost guard sensor 20 kohm / 25 °C length 400 mm

Products fulfill 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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