

FROST GUARD SENSOR TEV NTC 1.8

TEV NTC 1.8 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 1.8 k Ω at 25 °C. Sensor stem is made of stainless steel.

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	110	25	1800
100	178	20	2177
90	230	15	2649
80	303	10	3241
75	349	5	3989
70	403	0	4940
65	468	-5	6159
60	545	-10	7730
55	638	-15	9771
50	750	-20	12 443
45	885	-25	15 969
40	1049	-30	20 659
35	1250	-40	35 480
30	1496	-50	63 229



Technical data:

sensor	NTC 1.8, 1.8 k Ω at 25 °C
mounting	R 1/4" thread
stem	4 mm x 200 mm
connecting cord	Ø 2.8 mm x 2 m
range	-50...+120 °C
accuracy	±0.3 °C (at 25 °C)
time constant	ca 2.5 s
pressure rating	PN16

Ordering guide:

Model	Product number	Description
TEV NTC 1.8	117E020	frost guard sensor 1.8 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).