

FROST GUARD SENSOR TEV PT 100

TEV Pt 100 temperature sensor is designed for automatic HVAC systems for monitoring air-heating radiators against frost.

Temperature is detected by a Pt 100 element with a nominal resistance of 100 ohm / 0 °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	PT 100 EN60751B
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 0 °C)
Time constant	about 2,5 s
Pressure rating	PN 16

Temperature / resistance -table:

LT °C	PT 100 Ω	LT °C	PT 100 Ω
120	146.06	25	109.73
100	138.50	20	107.79
90	134.70	15	105.85
80	130.89	10	103.90
75	128.98	5	101.95
70	127.07	0	100.00
65	125.16	-5	98.04
60	123.24	-10	96.09
55	121.32	-15	94.12
50	119.40	-20	92.16
45	117.47	-25	90.19
40	115.54	-30	88.22
35	113.61	-40	84.27
30	111.67	-50	80.31

Ordering guide:

Model	Product number	Description
TEV Pt100	1173020	frost guard sensor 100 ohm / 0 °C
TEV Pt100-400	1173021	frost guard sensor 100 ohm / 0 °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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