

TEP T1 - Strap-on temperature sensor



TEP T1 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures. Temperature is detected by a T1 element with a nominal resistance of 2226 Ω at 0 °C. Housing is made of heat-resistant plastic. The cover and the terminal blocks are tilted 45° to provide easy installation. Sensor is mounted on the pipe by using an adjustable tie.

Technical specifications

Property	Value
Sensor	T1 element
Range	-50...+120 °C
Accuracy	$\pm 0,25$ °C (at 0 °C)
Pipe	$\varnothing 40 \dots 90$ mm
Cable entry	M16
Housing	PC plastic
Protection class	IP54, cable entry or stem down

Sensor resistance at different temperatures

°C	Ω
-50	-
-45	-
-40	-
-35	-
-30	1394
-25	1982
-20	2030
-15	2078
-10	2127
-5	2176
0	2226

°C	Ω
5	2276
10	2326
15	2377
20	2429
25	2480
30	2532
35	2585
40	2638
45	2692
50	2745
55	2800

°C	Ω
60	2855
65	2910
70	2966
75	3022
80	3079
85	3136
90	3194
95	3252
100	3311
110	3430
120	3552

Supported standards and directives

Standard	Description
2014/30/EU	Electromagnetic Compatibility (EMC).
2011/65/EU	Restriction of Hazardous Substances (RoHS2) Directive.
EN 61000-6-3:2007/ A1:2011	Generic standards - Emission standard for residential, commercial and light-industrial environments.
EN 61000-6-2:2006	Generic standards - Immunity for industrial environments.

Ordering information

Type	Product number	Description
TEP T1	117V080	strap-on temperature sensor, 2226 Ω at 0 °C