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
Accuracy	±0,25 °C (at 0 °C)
Range	-50...+120 °C
Wiring terminals	0,14...1,5 mm^2 screw terminals, tilted to 45° angle.
Mounting	By an adjustable tie on the pipe.
Adjustable tie	
Pipe dimensions	Ø40...90 mm
Materials	Stainless steel 430 and zinc plated screw.
Probe	
Dimensions	41 x 15 x 6 mm
Material	Zinc casting
Housing	
Material	PC plastic
Cable entry	M16
Protection class	IP54, cable or stem downwards
Dimensions (w x h x d)	70 x 95 x 48 mm

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

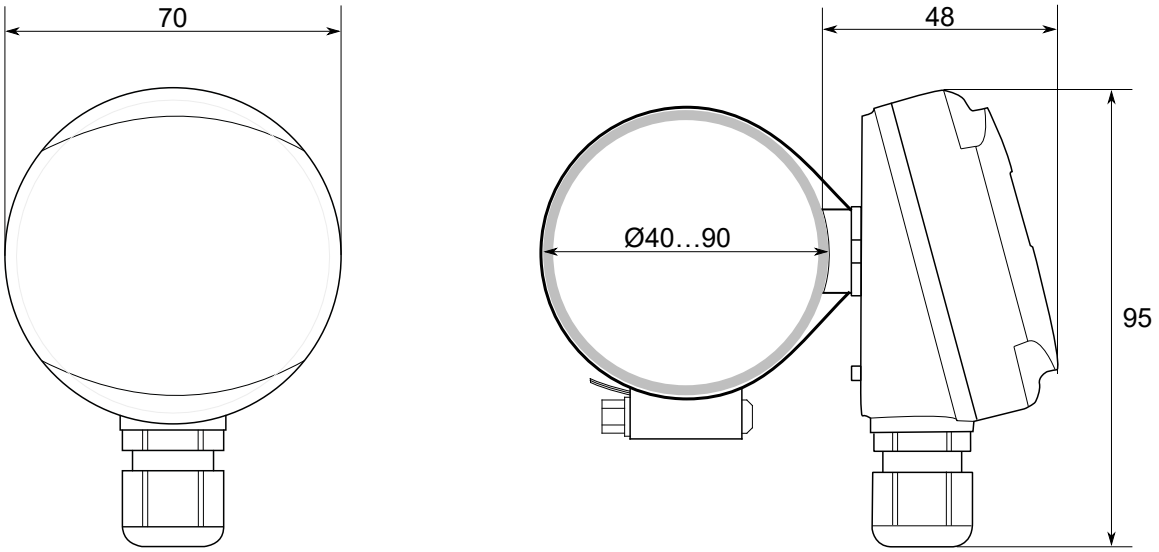
°C	Ω
5	2276
10	2326
15	2377
20	2429
25	2480
30	2532
35	2585
40	2638
45	2692
50	2745
55	2800

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

Ordering information

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

Dimensions



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	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments.
EN 61000-6-2:2006	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments.