

TEP PT 100 - Strap-on temperature sensor



TEP PT 100 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by a Pt100 element with a nominal resistance of 100 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	Pt100 EN 60751B
Accuracy	$\pm 0,3$ °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	80,31
-45	82,29
-40	84,27
-35	86,25
-30	88,22
-25	90,19
-20	92,16
-15	94,12
-10	96,09
-5	98,04
0	100,00

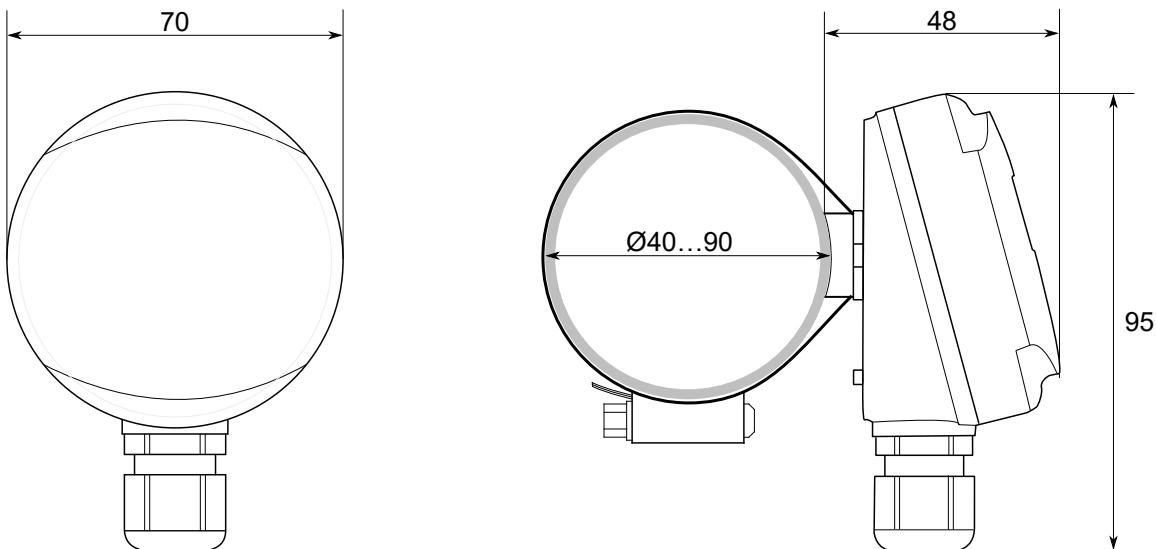
°C	Ω
5	101,95
10	103,90
15	105,85
20	107,79
25	109,73
30	111,67
35	113,61
40	115,54
45	117,47
50	119,40
55	121,32

°C	Ω
60	123,24
65	125,16
70	127,07
75	128,98
80	130,89
85	132,80
90	134,70
95	136,60
100	138,50
110	142,29
120	146,06

Ordering information

Type	Product number	Description
TEP PT 100	1173080	strap-on temperature sensor, 100 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.