TEP NTC 1.8 - Strap-on temperature sensor

TEP NTC 1.8 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by an NTC 1.8 element with a nominal resistance of 1,8 kΩ at 25 °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	1,8 kΩ NTC element
Accuracy	±0,3 °C (at 25 °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	63229
-45	47135
-40	35480
-35	26955
-30	20659
-25	15969
-20	12443
-15	9771
-10	7730
-5	6159
0	4940

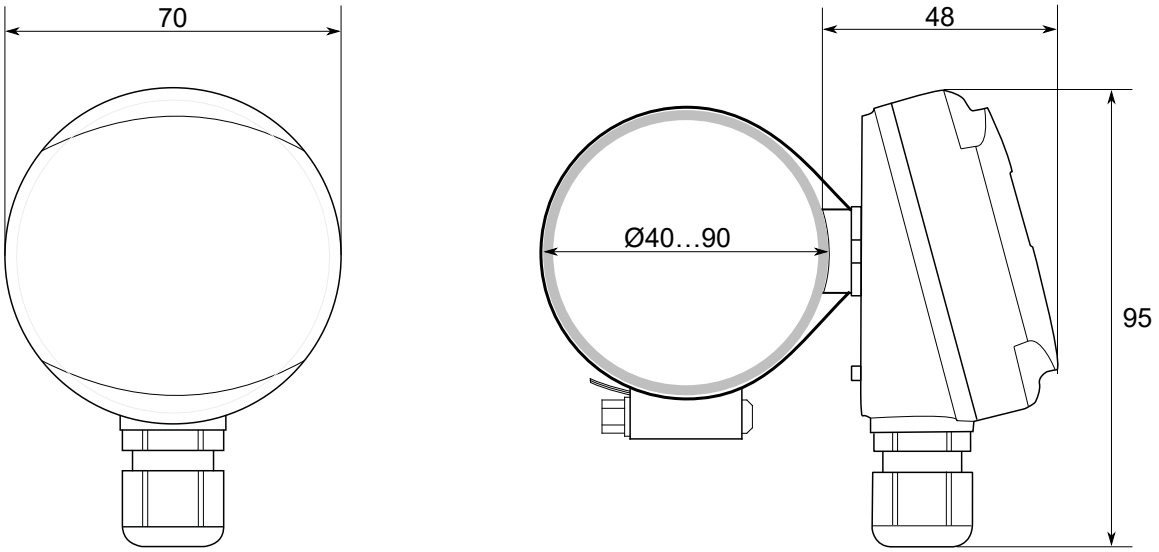
°C	Ω
5	3989
10	3241
15	2649
20	2177
25	1800
30	1496
35	1250
40	1049
45	885
50	750
55	638

°C	Ω
60	545
65	468
70	403
75	349
80	303
85	264
90	230
95	202
100	178
110	139
120	110

Ordering information

Type	Product number	Description
TEP NTC 1.8	117E080	strap-on temperature sensor, 1,8 kΩ at 25 °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.