

## 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 k $\Omega$  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 k $\Omega$ NTC element
Accuracy	$\pm 0,3$ °C (at 25 °C)
Range	-50...+120 °C
Wiring terminals	0,14...1,5 mm <sup>2</sup> 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

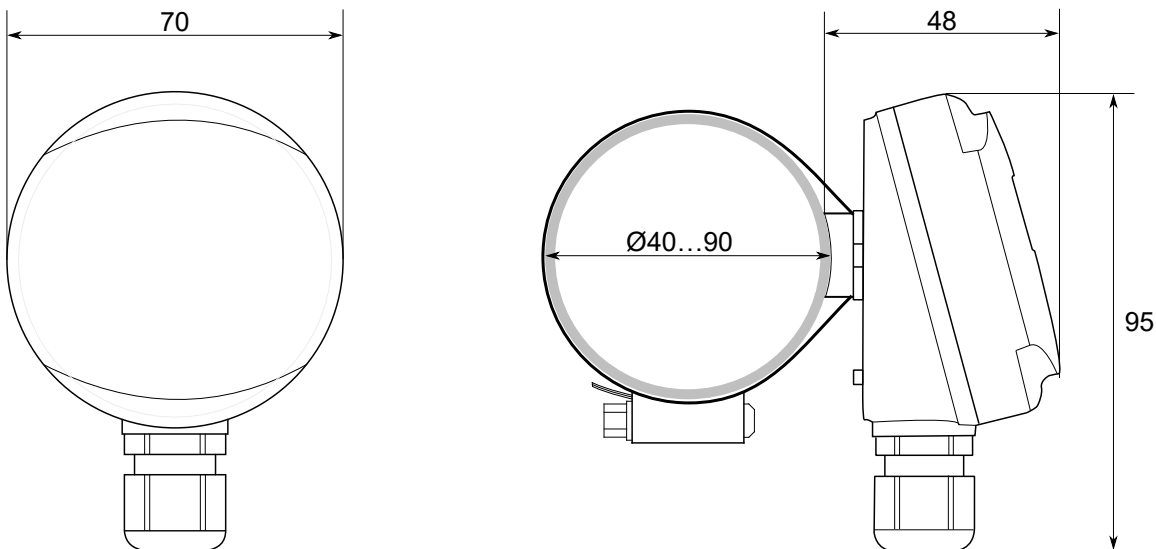
°C	Ω
5	3989
10	3241
15	2649
20	2177
25	1800
30	1496
35	1250
40	1049
45	885
50	750
55	638

°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.