

TEP NTC 2.2 - Strap-on temperature sensor



TEP NTC 2.2 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by an NTC 2.2 element with a nominal resistance of 2,2 k Ω 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	2,2 k Ω NTC element
Accuracy	$\pm 0,25$ °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	151470
-45	106603
-40	75953
-35	54751
-30	39908
-25	29398
-20	21860
-15	16428
-10	12460
-5	9533
0	7353

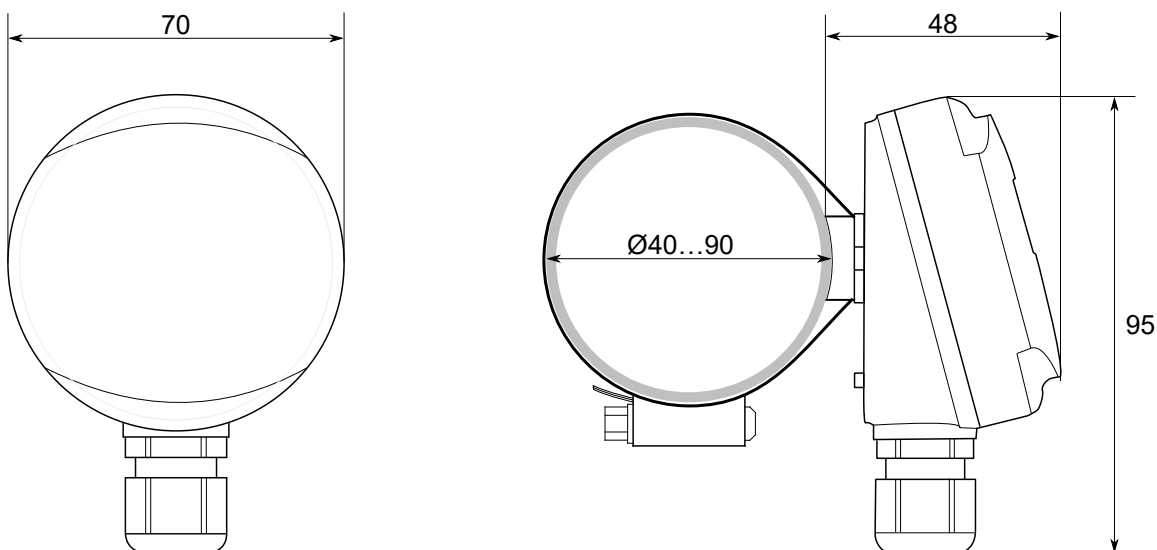
°C	Ω
5	5718
10	4482
15	3538
20	2813
25	2252
30	1814
35	1471
40	1200
45	984
50	811
55	673

°C	Ω
60	560
65	469
70	395
75	334
80	283
85	241
90	207
95	178
100	153
110	115
120	90

Ordering information

Type	Product number	Description
TEP NTC 2.2	1172080	strap-on temperature sensor, 2,2 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.