

TEP NTC 20 - Strap-on temperature sensor



TEP NTC 20 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by an NTC 20 element with a nominal resistance of 20 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	20 k Ω NTC element
Accuracy	$\pm 0,2$ °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	1659082
-45	1152992
-40	810861
-35	576763
-30	414698
-25	301297
-20	221088
-15	163777
-10	122431
-5	92322
0	70203

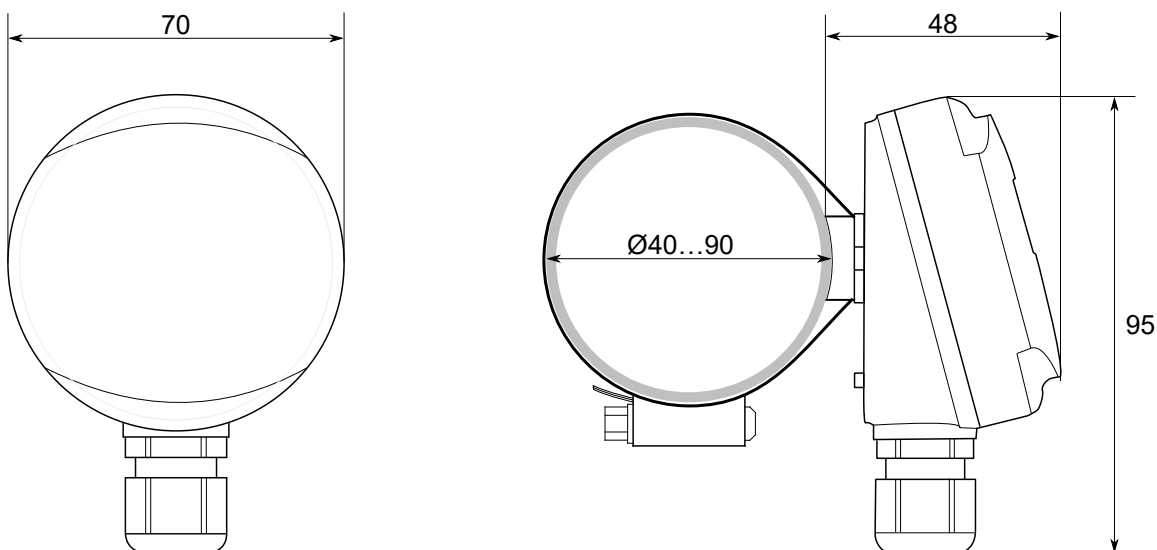
°C	Ω
5	53812
10	41567
15	32346
20	25350
25	20000
30	15887
35	12698
40	10211
45	8259
50	6718
55	5494

°C	Ω
60	4517
65	3732
70	3099
75	2585
80	2166
85	1823
90	1541
95	1307
100	1114
110	818
120	609

Ordering information

Type	Product number	Description
TEP NTC 20	1176080	strap-on temperature sensor, 20 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.