TEP NI 1000 - Strap-on temperature sensor

TEP NI 1000 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by an Ni1000 element with a nominal resistance of 1000 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	1 kΩ Ni element
Accuracy	±0,4 °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	743
-45	767
-40	791
-35	816
-30	842
-25	867
-20	893
-15	919
-10	946
-5	973
0	1000

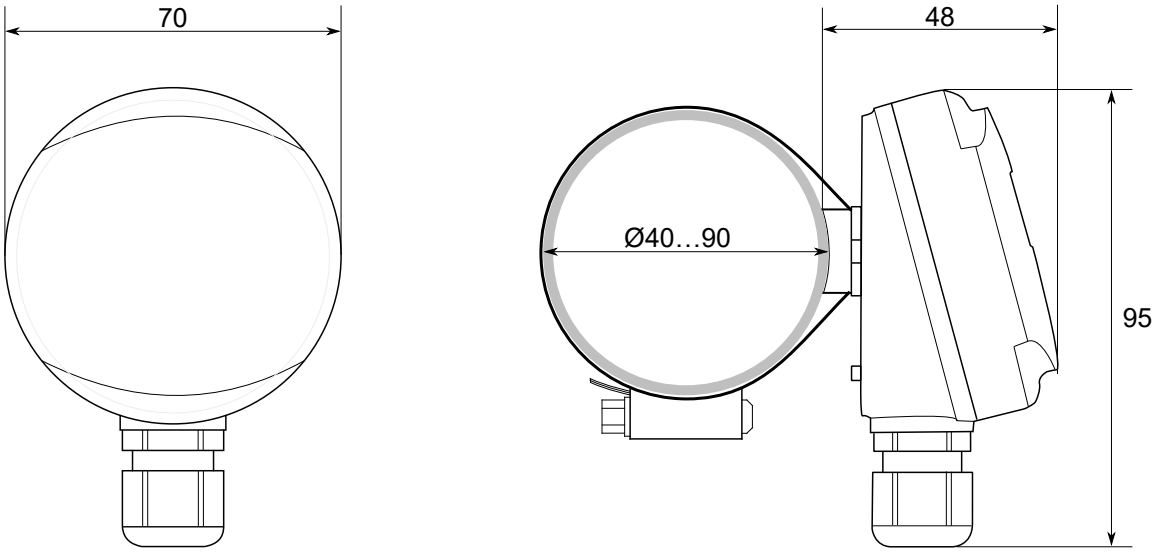
°C	Ω
5	1028
10	1056
15	1084
20	1112
25	1141
30	1171
35	1200
40	1230
45	1260
50	1291
55	1322

°C	Ω
60	1353
65	1385
70	1417
75	1450
80	1483
85	1516
90	1549
95	1583
100	1618
110	1688
120	1760

Ordering information

Type	Product number	Description
TEP NI 1000	117C080	strap-on temperature sensor, 1000 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.