

TEP NTC 10-KB - Strap-on temperature sensor



TEP NTC 10-KB temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by a NTC 10-KB element with a nominal resistance of 5025 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	NTC 10-KB element
Accuracy	$\pm 0,5$ °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	9854
-45	9793
-40	9712
-35	9605
-30	9466
-25	9288
-20	9067
-15	8796
-10	8472
-5	8093
0	7661

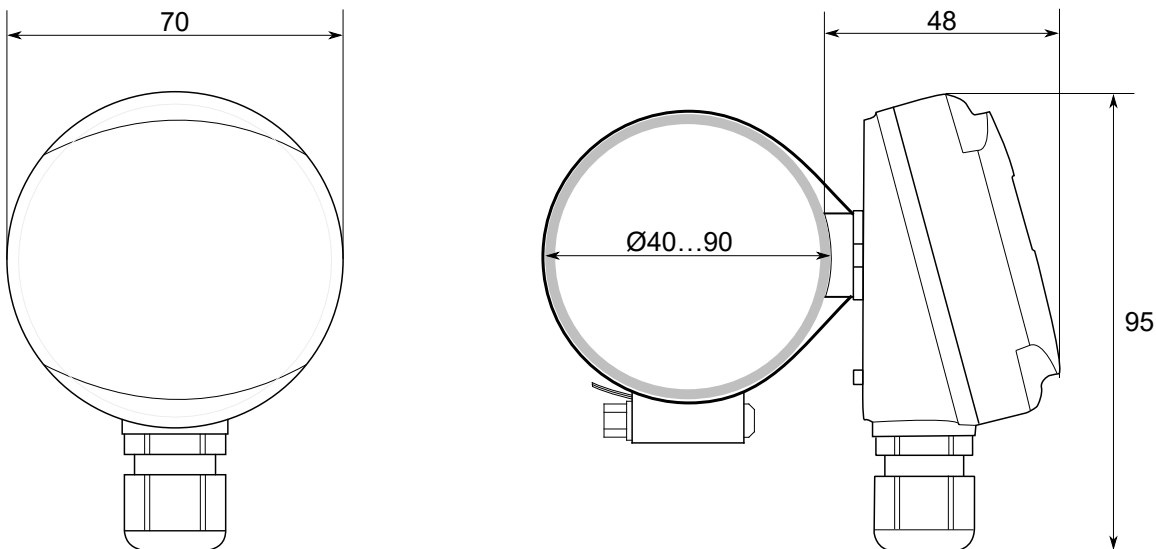
°C	Ω
5	7183
10	6667
15	6126
20	5573
25	5025
30	4492
35	3987
40	3517
45	3088
50	2702
55	2358

°C	Ω
60	2056
65	1791
70	1562
75	1364
80	1194
85	1048
90	923
95	815
100	723
110	576
120	467

Ordering information

Type	Product number	Description
TEP NTC 10-KB	117B080	strap-on temperature sensor, 5025 Ω 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.