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DATA SHEET

TEP

Produal

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TEP KP 10 - Strap-on temperature sensor



TEP KP 10 temperature sensor is designed for automatic HVAC systems to detect radiator temperatures.

Temperature is detected by a KP 10 element with a nominal voltage of 2,98 V 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	LM335Z element
Accuracy	±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

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Sensor voltage at different temperatures

°C	V
-50	-
-45	-
-40	2,33
-35	2,38
-30	2,43
-25	2,48
-20	2,53
-15	2,58
-10	2,63
-5	2,68
0	2,73

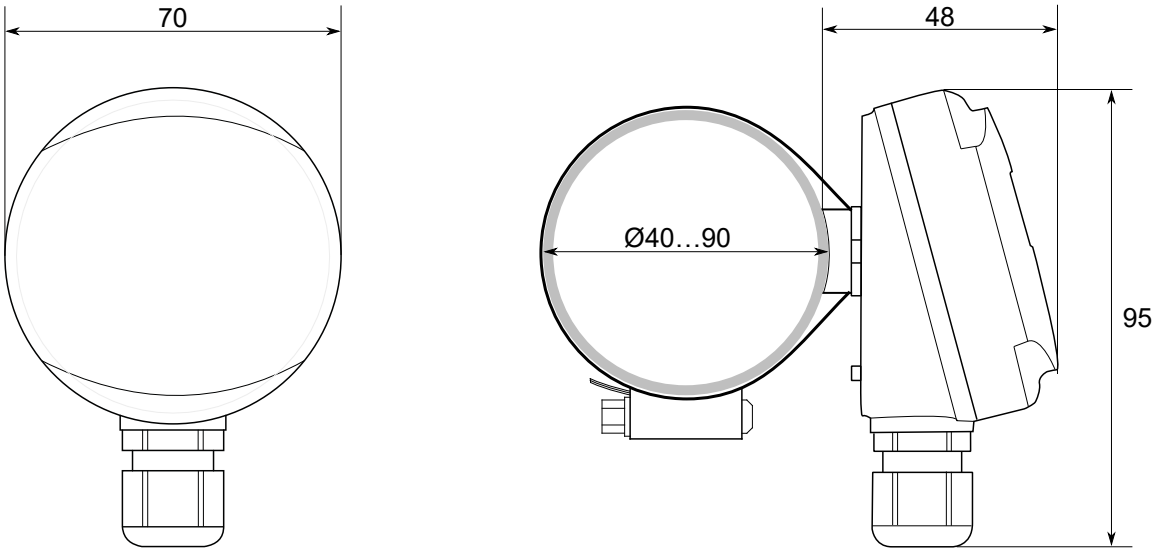
°C	V
5	2,78
10	2,83
15	2,88
20	2,93
25	2,98
30	3,03
35	3,08
40	3,13
45	3,18
50	3,23
55	3,28

°C	V
60	3,33
65	3,38
70	3,43
75	3,48
80	3,53
85	3,58
90	3,63
95	3,68
100	3,73
110	-
120	-

Ordering information

Type	Product number	Description
TEP KP 10	117J080	strap-on temperature sensor 2,98 V 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.

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