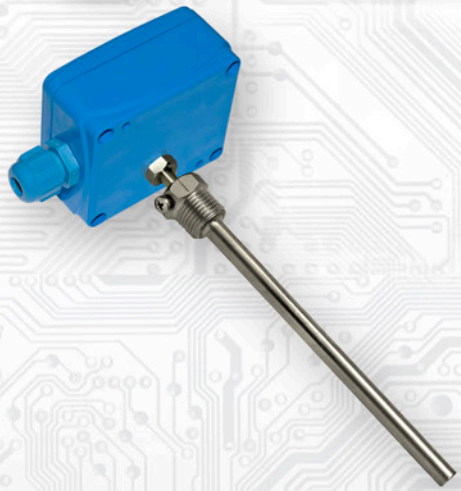
Temperature sensors with thermowel - output 4 ÷ 20 mA or 0 ÷ 10V, plastic head



Description:

The resistance temperature sensors are designed for general-purpose application in control and regulation systems for the temperature measurement in the pipeline. The temperature element (Pt1000) is located in the stem. The head of sensor is made of polycarbonate, cover is provided with quick-locking screws, the stem is made of stainless steel (DIN 1.4601). The converter temperature - current or temperature - voltage, which is positioned in the transducer head, is not provided with a galvanic separation.

Standard lenght L1 a L2

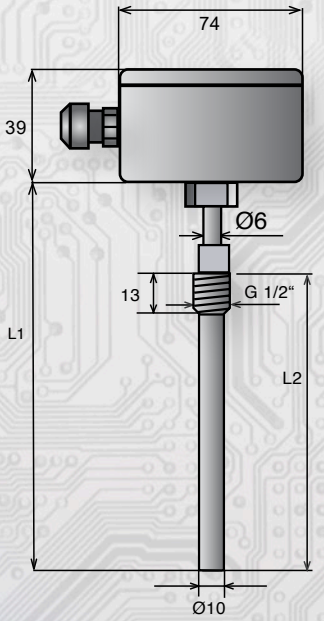
L1 (mm)	L2 (mm)
120	100
180	160
240	220
300	280
360	340
420	400

thermowel PN=4MPa

Basic technical parameters

Sensing element	Pt1000	
Measurement error	< 0,6 %	
	(P13I)	(P13U)
Output signal	4 ÷ 20 mA	0 ÷ 10 V
Power supply Ucc	11 ÷ 35 VDC	18 ÷ 30 VDC
Load resistance	Rz < (Ucc-11) x 50 [Ω]	Rz > 50 kΩ
Sensing element break	Iz > 24 mA	Uv > 12 V
Sensing element short	Iz < 3 mA	Uv ~ 0 V
Ambient temperature	-30 ÷ 80 °C	
Relative humidity	< 80%	
Material	polycarbonat, blue colour (grey on request)	
Protection type	IP 30	
Terminal board	COB 5/2, wire cross section 0,35 ÷ 2,5 mm²	

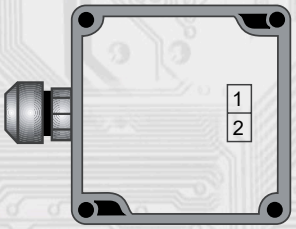
Dimensions and accessories



Temperature range

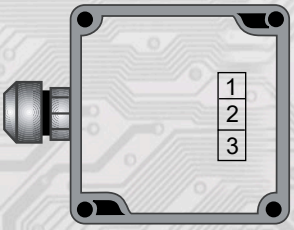
-30 ÷ 60°C
0 ÷ 35°C
0 ÷ 50°C
0 ÷ 100°C
0 ÷ 150°C
0 ÷ 250°C

Wiring diagram for P13I



1,2: current loop
arbitrary polarity

Wiring diagram for P13U



1: positive pole of the supply source
2: negative pole of the supply source
3: 0 to 10 V output

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