Outside temperature sensors - output 4 ÷ 20 mA or 0 ÷ 10 V, plastic head

Description:

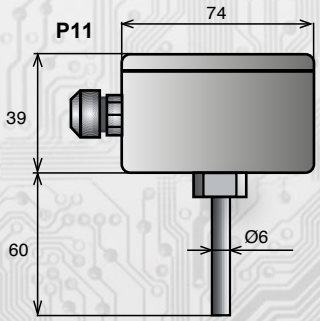
The sensors are designed for application in control and regulation systems for the measuring, signaling and registration of outside temperature. The sensor head is made of a plastic material, the stem is made of stainless steel (DIN 1.4301). The converter temperature - current or temperature - voltage,which is positioned in the transducer head, is not provided with a galvanic separation. The operation conditions are met by conventional, chemically non-aggressive environment, in which neither attendance nor maintenance is required by the transducers.

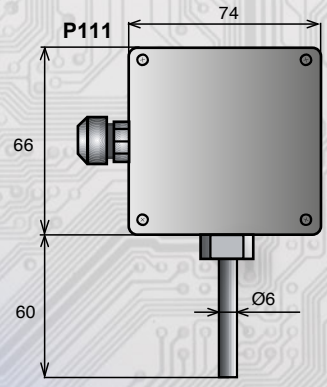
Basic technical parameters

Sensor	Pt1000	
Measurement error	< 0,6 %	
	(P11I)	(P11U)
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, grey colour (on reques white)	
Protection type	IP 30	
Terminal board	COB5/2,diameter0,35 ÷ 2,5 mm²	

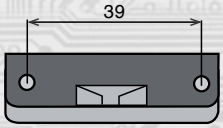
Version: P11I.....with the plastic holder to the attaching to a wall
P111I...direct mounting to a wall

Dimensions and accessories





plastic holder A - for P11x

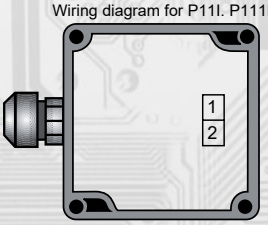


2 holes Ø 4,5 mm

Temperature range

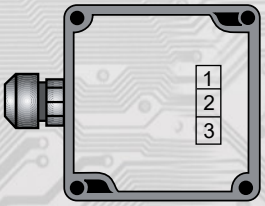
-30 ÷ 60°C
0 ÷ 35°C
0 ÷ 50°C
0 ÷ 100°C

Wiring diagram for P11I. P111I



1,2: current loop
arbitrary polarity

Wiring diagram for P11U, P111U



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

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