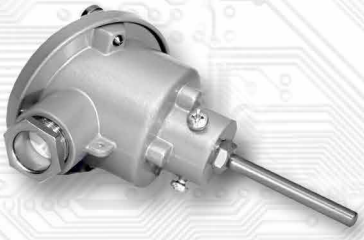
Outside temperature sensors - output 4 ÷ 20 mA or 0 ÷ 10V, metal head A11I and A11U



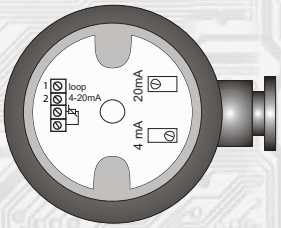
Description

These temperature sensors are designed for general-purpose application in control and regulation systems for the measuring, registration, and signaling of outside temperature. The temperature element (Pt1000) is located in the stem. The head of the sensor is made of aluminium, 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. The sensor is fitted with the metallic console for fastening on the wall.

Basic technical parameters

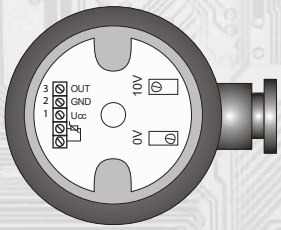
Sensor	Pt1000	
Measurement error	< 0,6 %	
Output signal	4 ÷ 20 mA (sensors A11I)	0 ÷ 10 V (sensors A11U)
Power supply Ucc	11÷ 35 VDC	18 ÷ 30 VDC
Load resistance	Rz < (Ucc-11) x 50 [Ω]	Rz > 50 kΩ
Sensing element break	Iz > 24 mA	Uv > 12 V
Sensing element short	Iz < 3 mA	Uv ~ 0 V
Output impedance		100 Ω
Power consumption		max 5 mA
Ambient temperature	- 30 ÷ 80 °C	
Relative humidity	< 80%	
Head	material aluminium, colour grey	
Protection type	IP 54 (EN 60529)	
Terminal board	wire diameter 0,35 ÷ 1,5 mm^2	
Cable gland	P16, wire diameter 5 ÷ 7 mm	

Wiring diagram - A11I



1,2: current loop
arbitrary polarity

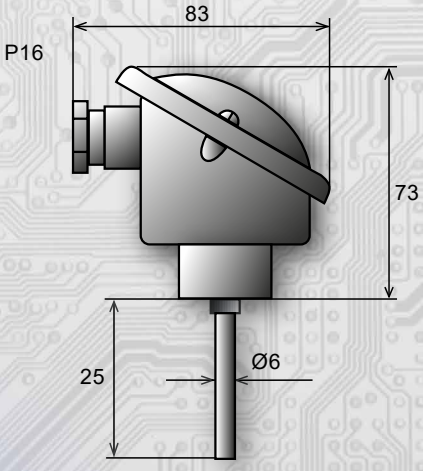
Wiring diagram - A11U



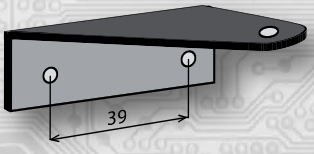
1: positive pole of the supply source
2: negative pole of the supply source
3: 0 to 10 V output

Dimensions:

A11x



Side holder C - for A11x



2 holes Ø 4,5 mm

Temperature ranges

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

Max. temperature 250°C

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