

EPIC® SENSORS W-5802

Compact resistance temperature sensor with transmitter

Features

- temperature range *) -60...+450 °C, temporarily +550 °C
- temperature range for transmitter -40...+85 °C
- integrated mA transmitter
- output current signal 4...20 mA
- miniature transmitter
- programmable transmitter configurations
- programmable sensor fault indication
- linear temperature measurement
- RTD sensor
- Pt100, accuracy class A as standard delivery
- 4-pin M12 plug
- mineral insulated cable
- bendable
- material AISI316/AISI 316L
- vibration proof
- durable steel enclosure
- 3D step model available on request.



Typical applications

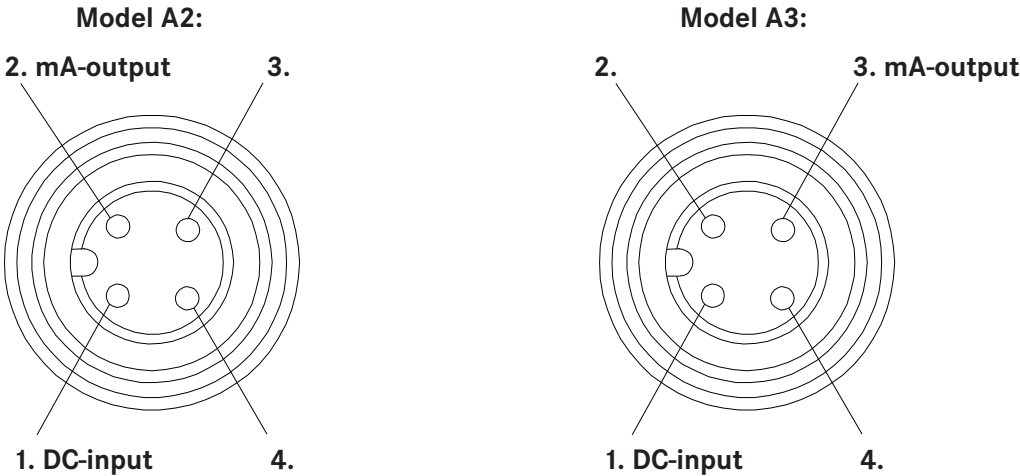
- temperature measurement
- requirements for minimal space usage.

Technical data

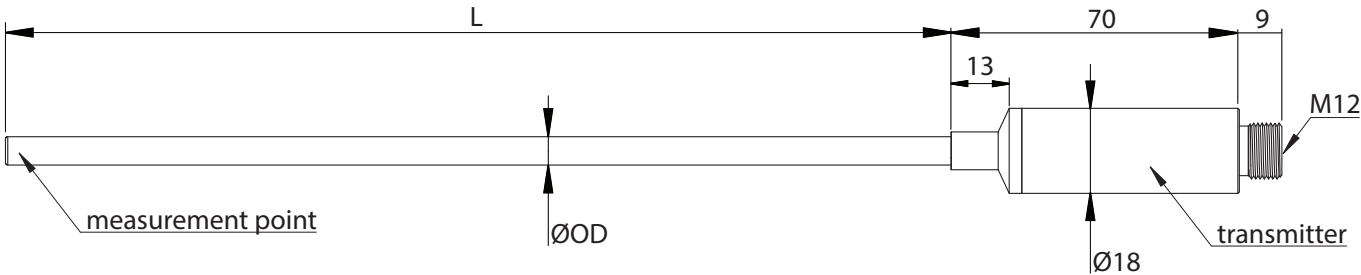
Materials	AISI 316/AISI 316L, maximum temperature +450 °C, temporarily +550 °C
Sensor element	MI cable with diameter 3 or 6 mm, other diameters on request
Connector	4 pin, A coded M12 plug
Transmitter	Manufacturer PR electronics, model PR 5802 A2A2 or PR 5802 A2A3
Operation voltage	8,0... 35 VDC
Power loss	25 mW... 0,8 W
Response time	0,33... 60 s
Output signal	4... 20 mA
Tolerances Pt 100 (IEC 60751)	AA tolerance $\pm 0.1 + 0.0017 \times t$, operating temperature -50...+250 °C A tolerance $\pm 0.15 + 0.002 \times t$, operating temperature -100...+450 °C B tolerance $\pm 0.3 + 0.005 \times t$, operating temperature -196...+600 °C B 1/3 DIN, 0.1 °C +0.5%, B1/10 DIN 0.03 °C +0.5%, operating temperature -196...+250 °C
*) Temperature range	Temperature measurement range -60...+450 °C, temporarily +550 °C (Note: transmitter temperature range -40...+85 °C)
Quality certificate	ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 issued by DNV
IP rating	IP65, higher IP rating on request

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Connections 2-wire installation



Drawing



Product code key

Example code: W – 5802 – A2 – M – 6 / 300 – A – M12 – X

W	= Pt100 resistance temperature sensor	↑
5802	= transmitter type (constant in code)	↑
A2	= transmitter model	↑
A3	(PR 5802 A2A2 or PR 5802 A2A3)	↑
M	= mineral insulated sensor (constant in code)	↑
3, 6	= outer diameter of sensor element (ØOD) [mm] (other diameters on request)	↑
300	= MI cable length, L [mm]	↑
A, B	= Pt100 accuracy class, (class A as standard delivery)	↑
M12	= connector	↑
X	= additional details on the text line	↑