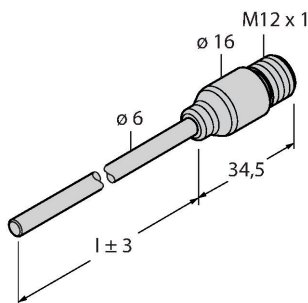


TPS-206A-CF-H1141-L150

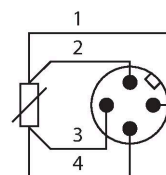
Temperature Detection – Probe, Stainless Steel



Features

- Pt-100 probe acc. to DIN EN 60751
- Vibration and shock-resistant
- Class A for temperatures < 350 °C
- Class B for temperatures > 350 °C
- Can be connected to TS, TTM, IM34, BL20, BL67 and excom
- Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- Process connection via compression fitting or thermowell.

Wiring diagram



Functional principle

Resistance thermometers are used everywhere where temperatures must be captured and monitored for the control and optimization of processes.

Typical applications are process plants, manufacturing facilities and units, as well as air-conditioning systems. The core element of the temperature transmitters is a Pt 100 measuring resistor in 4-wire technology.

Technical data

Type	TPS-206A-CF-H1141-L150
ID	9910639
Temperature range	
Measuring range	-50...500 °C
	-58...932 °F
Accuracy	±0.15 K + 0.002 • t (-30...300 °C)
Measuring element	Pt100, DIN EN 60751, class A; connection mode: 4-wire connection
Self-heating	0.4 K/mW at 0 °C
Response time	t 0.5 = 6 s / t 0.9 = 15 s in water at 0.2 m/s
Immersion depth (L)	150 mm
Process Pressure	100 bar
Short-circuit/reverse polarity protection	yes
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Electrical connection	Connector, M12 × 1
Protection class	IP67
Environmental conditions	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C

Technical data

Tests/approvals	
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.
Auxiliary power	24 VDC
Technical data	
Type	TPS-206A-CF-H1141-L150
ID	9910639
Temperature range	
Measuring range	-50...500 °C
	-58...932 °F
Accuracy	±0.15 K + 0.002 • t (-30...300 °C)
Self-heating	0.4 K/mW at 0 °C
Measuring element	Pt100, DIN EN 60751, class A; connection mode: 4-wire connection
Response time	t 0.5 = 6 s / t 0.9 = 15 s in water at 0.2 m/s
Immersion depth L	150 mm
Outer diameter	6 mm
Short-circuit/reverse polarity protection	yes
Protection class	IP67
Environmental conditions	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Process Pressure	100 bar
Electrical connection	Connector, M12 × 1
Core cross-section	4 mm ²
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.

Technical data

Auxiliary power	24 VDC
Tests/approvals	