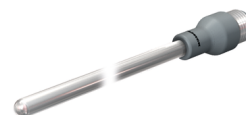
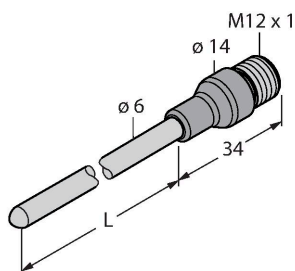


TP-206A-CF-H1141-L200

Temperature Detection – Probe



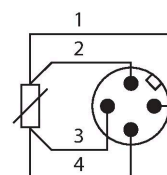
Technical data

Type	TP-206A-CF-H1141-L200
ID no.	9910477
Temperature range	
Measuring range	-50...500 °C
Temperature operating range	-58...932 °F
Accuracy	$\pm 0.15\text{ °C} + 0.002 \cdot t $ (-30...350 °C)
Measuring element	Pt-100 probe, DIN EN 60751, class A
Self-heating	0.4 K/mW at 0 °C
Response time	$t_{0.5} = 6\text{ s}$ / $t_{0.9} = 15\text{ s}$ in water at 0.2 m/s
Immersion depth (L)	200 mm
Process Pressure	100 bar
Output function	4-wire
Housing material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Electrical connection	Connector, M12 x 1
Protection class	IP67
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.

Features

- Pt-100 probe acc. to DIN EN 60751
- Vibration and shock-resistant
- Connectable to TS, TTM, IM34, BL20, BL67
- Max. temperature connector: 120°C
- 4-wire connection technology

Wiring diagram



Functional principle

Resistance thermometers are used for the detection and monitoring of temperatures to optimize and control a process. Typical applications are in machine and plant construction as well as in the process industry. The core element of the temperature probe is a temperature-dependent resistor.

Technical data

Auxiliary power	24 VDC
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C

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Storage temperature	-40...+85 °C
Housing	
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
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
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