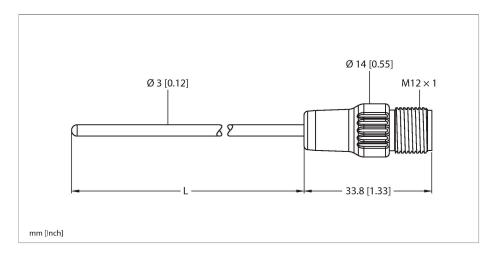


TP-203B-CF-H1141-L200/D805 Temperature Detection – Probe





D 9910520	Туре	TP-203B-CF-H1141-L200/D805	
Pt100 for -200 °C Temperature range Measuring range -200500 °C Measuring range -328932 °F Accuracy ±0.3 K + 0.005 • t (-50500 °C) Self-heating 0.4 K/mW at 0 °C Measuring element Pt-100 probe, DIN EN 60751, class B, connection mode: 4-wire connection Response time t 0.5 = 1.5 s / t 0.9 = 6.0 s in water at 0.2 m/s Immersion depth (L) 200 mm Outer diameter 3 mm Protection type and class IP67 Environmental conditions Ambient temperature -20+120 °C Mechanical data Housing material Stainless steel, 1.4404 (AISI 316L) Sensor material Stainless steel, 1.4404 (AISI 316L) Process connection Growpression fittings, thermowell or direct mounting Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	ID	9910520	
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Immersion depth (L) Outer diameter Protection type and class Environmental conditions Ambient temperature -20+120 °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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Measuring element		
Outer diameter 3 mm Protection type and class IP67 Environmental conditions Ambient temperature -20+120 °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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Response time		
Protection type and class Environmental conditions Ambient temperature -20+120 °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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Immersion depth (L)	200 mm	
Environmental conditions Ambient temperature -20+120 °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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Outer diameter	3 mm	
Ambient temperature -20+120 °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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Protection type and class	IP67	
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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Environmental conditions		
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 Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Ambient temperature	-20+120 °C	
Sensor material Stainless steel, 1.4404 (AISI 316L) Process connection For compression fittings, thermowell or direct mounting Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Mechanical data		
Process connection For compression fittings, thermowell or direct mounting Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Housing material	Stainless steel, 1.4404 (AISI 316L)	
Pressure resistance 100 bar Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Sensor material	Stainless steel, 1.4404 (AISI 316L)	
Electrical connection Connector, M12 × 1 Reference conditions acc. to IEC 61298-1	Process connection		
Reference conditions acc. to IEC 61298-1	Pressure resistance	100 bar	
61298-1	Electrical connection	Connector, M12 × 1	
Temperature 15+25 °C			
	Temperature	15+25 °C	



Features

- ■Pt 100 probe according to DIN EN 60751
- Resistant to vibrations and shocks
- Connectable to TS, TTM, IM34, BL20, BL67
- Operating temperature of the connector: -20 ... 120 °C
- 4-wire connection technology

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.



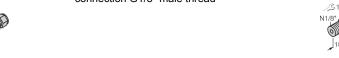
Technical data

Atmospheric pressure	8601060 hPa abs.	
Humidity	4575 % rel.	
Auxiliary power	24 VDC	
Tests/approvals		
Approvals	cULus	
UL registration number	E345414	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C	

Accessories

CF-M-3-G1/4-A4

CF-M-3-G1/8-A4	9910405	CF-M-3-N1/8-A4	9910406
	Compression fitting for direct		Compression fitting for direct
	mounting of temperature sensors;		mounting of temperature sensors;
	sensor diameter 3 mm; process		sensor diameter 6 mm; process
244	connection G1/8" male thread	240	connection 1/8" NPT male thread



9910407 CF-M-3-N1/4-A4 9910408
Compression fitting for direct Compression fitting for direct

