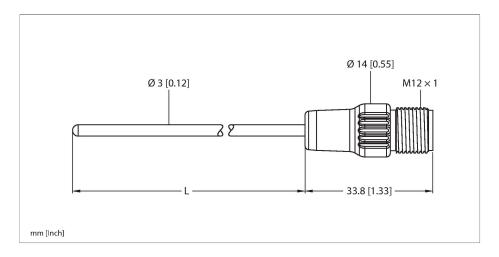


TP-203B-CF-H1141-L200/D805 Temperature Detection – Probe





Туре	TP-203B-CF-H1141-L200/D805		
ID	9910520		
Special version	D805 Corresponds to:Pt100 for -200 °C		
Temperature range			
Measuring range	-200500 °C		
	-328932 °F		
Accuracy	±0.3 K + 0.005 • t (-50500 °C)		
Self-heating	0.4 K/mW at 0 °C		
Measuring element	Pt100, 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 class	IP67		
Environmental conditions			
Ambient temperature	-20+120 °C		
	-20+120 °C		
Ambient temperature	-20+120 °C Stainless steel, 1.4404 (AISI 316L)		
Ambient temperature Mechanical data			
Ambient temperature Mechanical data Housing material	Stainless steel, 1.4404 (AISI 316L)		
Ambient temperature Mechanical data Housing material Sensor material	Stainless steel, 1.4404 (AISI 316L) Stainless steel, 1.4404 (AISI 316L) For compression fittings, thermowell or		
Ambient temperature Mechanical data Housing material Sensor material Process connection	Stainless steel, 1.4404 (AISI 316L) Stainless steel, 1.4404 (AISI 316L) For compression fittings, thermowell or direct mounting		
Ambient temperature Mechanical data Housing material Sensor material Process connection Pressure resistance	Stainless steel, 1.4404 (AISI 316L) Stainless steel, 1.4404 (AISI 316L) For compression fittings, thermowell or direct mounting 100 bar		
Ambient temperature Mechanical data Housing material Sensor material Process connection Pressure resistance Electrical connection	Stainless steel, 1.4404 (AISI 316L) Stainless steel, 1.4404 (AISI 316L) For compression fittings, thermowell or direct mounting 100 bar Connector, M12 × 1		
Ambient temperature Mechanical data Housing material Sensor material Process connection Pressure resistance Electrical connection Core cross-section Reference conditions acc. to IEC	Stainless steel, 1.4404 (AISI 316L) Stainless steel, 1.4404 (AISI 316L) For compression fittings, thermowell or direct mounting 100 bar Connector, M12 × 1		



Features

- Operating temperature of the connector: -20 ... 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

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-G1/8-A4	9910405	CF-M-3-N1/8-A4
	Compression fitting for direct	
	mounting of temperature sensors;	
	sensor diameter 3 mm; process	
0.00	connection G1/8" male thread	-

Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/8" NPT male thread

9910406

9910408

|--|

Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection G1/4" male thread



CF-M-3-N1/4-A4

Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection 1/4" NPT male thread

Accessories

Dimension drawing	Type	ID	
	TTM-100-LIUPN-H1140	9910632	Miniature transmitter for external probes

