

# TP125 Series

## Temperature Sensors

Rugged temperature sensor in a high pressure capsule ideal for hydraulic applications. Linear output makes it ideal for connecting into proprietary displays and data acquisition systems.



Milwaukee, WI 53235, USA

Tel: +1 (414) 769-6400  
sales-us@webtec.com

St. Ives, Cambs. PE27 3LZ, UK

Tel: +44 (0) 1480 397 400  
sales-uk@webtec.com

[www.webtec.com](http://www.webtec.com)

### Features:

- **MAX. TEMPERATURE:**  
125°C
- **PRESSURE RATING:**  
480 bar
- **MATERIAL:**  
Stainless Steel /  
Aluminium
- **CONNECTOR:**  
Male 4 pin M12 x1.0
- **OUTPUT OPTIONS:**  
4 - 20mA or 0 - 5V
- **THREE** thread forms  
available

Hydraulic measurement and control



TP125-BU-ENG-1764.pdf  
(Issue 4)

05/14

## Specifications

Model number	Output type	Fluid connection	A mm (inches)	B mm (inches)
TP125-5V-B	3 wire 0-5V	1/4" BSPP	104 (4 3/32")	17 (11/16")
TP125-5V-N	3 wire 0-5V	1/4" NPTF	106 (4 11/64")	19 (3/4")
TP125-5V-S	3 wire 0-5V	7/16" -20UN #4 SAE ORB Male	101 (4")	14 (9/16")
TP125-mA-B	2 wire 4-20mA	1/4" BSPP	104 (4 3/32")	17 (11/16")
TP125-mA-N	2 wire 4-20mA	1/4" NPTF	106 (4 11/64")	19 (3/4")
TP125-mA-S	2 wire 4-20mA	7/16" -20UN #4 SAE ORB Male	101 (4")	14 (9/16")

Note - All NPTF threads are to ANSI B1.20.3 -1976 Class 1. As stated in the standard it is recommended that "sealing is accomplished by the means of a sealant applied to the thread". NPT fittings may also be used to connect to NPTF ports (also with a sealant applied to the thread)

### Functional specification

**Ambient temperature:** 5 to 40°C (41 - 104°F)  
**Fluid type:** Oils, fuels, water glycol, water emulsions  
**Fluid temperature:** 0 to 125°C (32 to 257°F)  
**Accuracy:** ±1°C (±2°F)  
**Scaled range:** 0 to 150°C (32 to 302°F)  
**Max pressure:** 480 bar (7000 psi)

### Electrical specification

**Supply voltage (VS):** 12 -32 VDC  
**Current output:** 4-20 mA, 2 wire loop, max loop resistance = (VS-9) x 50 ohms  
**Voltage output:** 0 -5 VDC, current consumption = 10 mA, minimum load 20K ohms

### Construction material

**Body:** Stainless steel 303S31, Aluminum 2011T3  
**Seals:** (where fitted) Viton as standard, EPDM are available - please consult Webtec sales office

### Weight

80g (0.18 lbs)

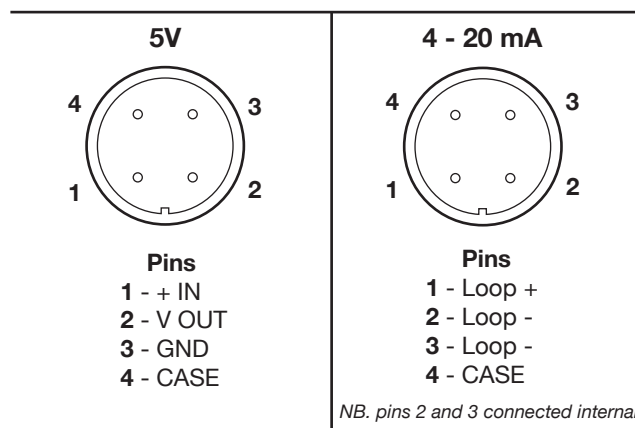
### Accessories

For Panel meters (readouts) see DP 130 bulletin  
 For flow meters see CT, CTR or flowhub bulletin

Calibration is included when complete systems (sensors, cable and panel meter) is purchased in one order.

For help and advice, please contact sales office.

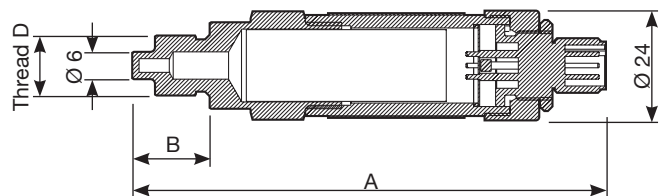
### Connection Details



Connecting cable (5m)	FT10228-05
Extension cable (5m)	FT10229-05
Connector (M12x1 4 pin)	FT9880

### Dimension details

Dimensions in millimetres



A and B see table above



APPROVED