



- ▶ **Combined pressure and temperature measurement**
- ▶ **High strength, rugged stainless steel design**
- ▶ **Competitively priced**

The EPTT5100 is a high quality all stainless steel combined pressure and temperature transducer, intended for use in the measurement of gases and liquids compatible with stainless steel.

The EPTT5100 offers the combination of the well proven EPT3100 motor sport pressure transducer with the latest integrated temperature measurement technology.

With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the EPTT5100 assures trouble free operation at temperatures up to 125°C.

The EPTT5100 strain gauge sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected within a rugged, stainless steel housing.

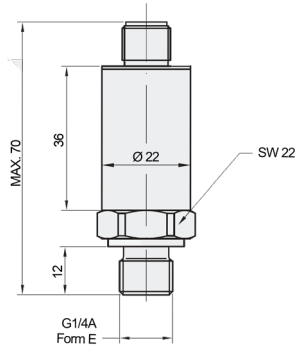
The EPTT5100 high strength stainless steel construction contains no silicone oil and no internal O- rings and provides therefore excellent reliability which is backed by a one-year warranty.



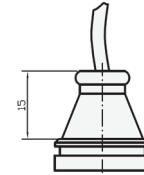
Specifications	
Performance	
Pressure:	
Accuracy @ RT	< +/-0.8%
Stability (1 Year)	< ± 0.1 %
Overrange pressure	up to 4x rated pressure
Burst pressure	up to 6x rated pressure
Pressure cycles	> 10 million
Pressure response time:	<1ms
Temperature:	
Temperature range	-50 to +150°C linear output
Accuracy	< ± 0.8 %
Non Linearity	<1%
Temperature response time:	<120s
Environment	
Temperature	-40° to 125°C
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G peak, 20 to 2000 Hz
Sealing	IP 66
Electronics	
Excitation for output pressure:	5 VDC for 0.5 – 4.5 V output, 10 - 32 VDC for 0 - 5 V output 12 - 32 VDC for 0 – 10V output
Output temperature	0.25..4.75 VDC
Current consumption	< 10 mA
Reverse voltage protection	Yes
Mechanics	
Housing	304 stainless steel
Wetted parts	17-4PH stainless steel
Pressure port	see select table
Electrical connection	see select table
Weight	ca. 60 g

## Dimensions

M12 connector



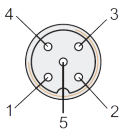
Cable Output



Jacketed cable  
600 mm long  
Ø 4.5 mm

## Electrical Connections

Connector M12x1 5-Pin

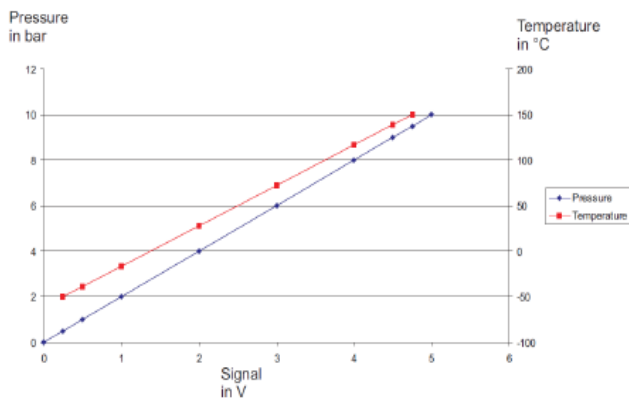


- 1: + Supply
- 2: Not connected
- 3: - Supply
- 4: Output Pressure
- 5: Output Temperature

Cable output

- red: + Supply
- black: - Supply
- white: Output Pressure
- green: Output Temperature
- white /blue: Not connected

## Pressure and Temperature Output



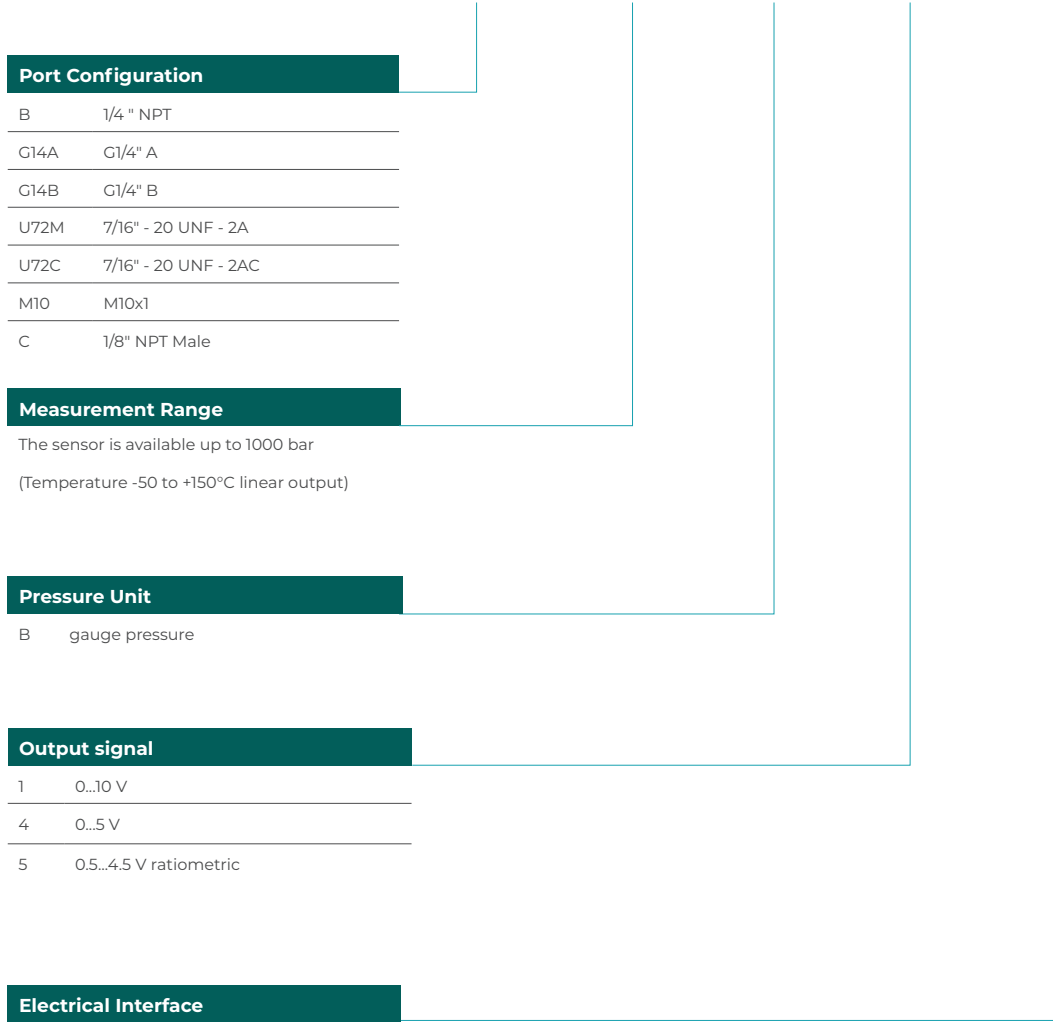
# EPTT5100 PRESSURE/ TEMPERATURE SENSOR



## Ordering information

(Please use the characters in the chart below to create your product code)

**Sample Code** EPTT5100 - M10 - 01000 - B - 4 - A



### Port Configuration

B	1/4" NPT
G14A	G1/4" A
G14B	G1/4" B
U72M	7/16" - 20 UNF - 2A
U72C	7/16" - 20 UNF - 2AC
M10	M10x1
C	1/8" NPT Male

### Measurement Range

The sensor is available up to 1000 bar  
(Temperature -50 to +150°C linear output)

### Pressure Unit

B gauge pressure

### Output signal

1	0...10 V
4	0...5 V
5	0.5...4.5 V ratiometric

### Electrical Interface

A	600mm
F	M12x1

## Pressure Range

Bar	0.6	1.0	1.6	2.5	4	6	10	16	25	40	60	100
Order Code	00060	00100	00160	00250	00400	00600	01000	01600	02500	04000	06000	10000
Bar	160	250	400	600	1000							
Order Code	16000	25000	40000	60000	100000							

**If you require a customized solution for your program contact our sales team.**

The EPTT5100 series is backed by a 1 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct