

## EPTT5100

- 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.

## Specification

### 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

## EPTT5100

### Ordering Information

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

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

Series	Port Configuration	Measurement Range	Pressure Unit	Output Signal	Electrical Interface
EPTT5100	M10 - M10 x 1 B-1/4" NPT G14A - G1/4" A G14B - G1/4" B U72M - 7/16"-20 UNF-2A U72C - 7/16"-20 UNF-2AC	The sensor is available up to 1000 Bar  (Temperature: -50 to +150°C linear output)	B - gauge pressure	1 = 0 - 10 VDC 4 = 0..5 V 5 = 0.5..4,5 V ratiometric	A - 600 mm cable F - M12 x 1

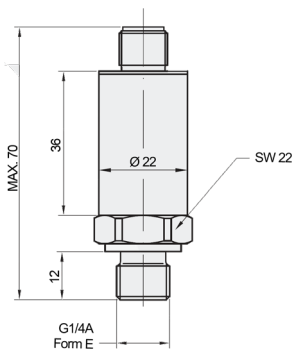
Custom options available on request

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

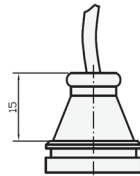
The EPTT5100 series is backed by a 1 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct installation of the transmitter.

### Dimensions / Electrical interface

#### M12 connector



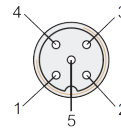
#### Cable output



Jacketed cable  
600 mm long  
Ø 4.5 mm

#### Electrical Connections

##### Connector M12x1 5-Pin



##### Cable output

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

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

#### Pressure and temperature output

