# Pressure Sensor - EPT12R



Eurosensor

- Up to 1500 Bar pressure range
- High strength, rugged design
- Wetted components titanium
- No internal O- rings, no internal silicone oil
- Measuring volume less than 1mm³
- Protection class IP65

The **EPT12R** features a high performance titanium pressure cell for high temperatures combined with well proven electronics. Together with its compact packaging format this product is ideal for powertrain or autosports test applications.



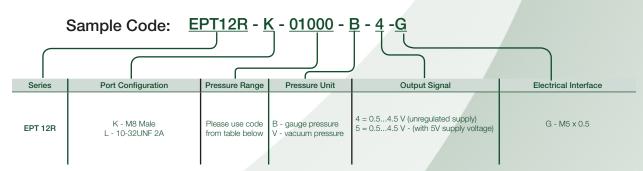
### Specification

Performance							
Accuracy @ RT	% of the range 0.5 % (typ.) at room temp. < ± 1.0 % (max.) at room temp < ± 2.0 % (max.) at -20°C to +85°C 2.0 % (typ.) at -20°C to -40°C < ± 4.0 % (max.) at -20°C to -40°C < ± 4.0 % (max.) at -20°C to -40°C < ± 4.0 % (max.) at +85°C to +200°C < ± 4.0 % (max.) at +85°C to +200°C	(incl. nonlinearity, hysteresis, repeatability and temperature effects. (New parts: max. drift 0.1% FS/year)					
Span	4.0 V						
Output at FS	4.5 V						
Zero output	0.5 V						
Response time	Voltage output: 1.0 msec (typ.) 2.0 msec (max.) Ratiometric output: < 1.0 msec Measured from initial value to output at 90%						
Stability/year	% of the range < ± 0.1 % -15 01500 bar						
Pressure range							
Pressure type	sealed / gauge						
Overrange pressure	up to 2x nominal pressure (depending on pressure range)						
Burst pressure	up to 3x nominal pressure (depending on pressure range)						
Pressure cycles	> 10 million						
Environment							
Temperature range	Ambient temperature sensor -45 to 185°C Ambient temperature electronics -45 to +125°C Media temperature -45 to +200°C Storage temperature -50 to +125°C						
Shock	1000 G, 11 msec, 1/2 Sine						
Vibration	16 G peak, 20 to 2000 Hz						

Electronics	
Excitation	5 VDC for 0.5 – 4.5 V ratiometric output 12 to 32 VDC for non ratiometric output
Current consumption	10 mA min. 15 mA max.
Load resistor	5 kΩ
Output resistance	10 Ω
Isolation resistance to case	100 ΜΩ
Short circuit protection	Yes
Reverse voltage protection	Yes (up to 33 VDC)
Mechanics	
Housing	304 stainless steel
Wetted parts	Wetted components titanium. No internal O- rings, no internal silicone oil.
Pressure port	10-32UNF-2A / M8 Male
Electrical connection	M5 x 0.5
Weight	>120 g approx.
Mounting direction	Any
Mounting force	5 25 Nm (depending on the pressure port)

#### Ordering information

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



Custom options available on request

Pressure Range														
Bar	6	10	16	25	40	50	60	100	160	250	400	600	1000	1500
Order Code	00600	01000	01600	02500	04000	05000	06000	10000	16000	25000	40000	60000	100000	150000

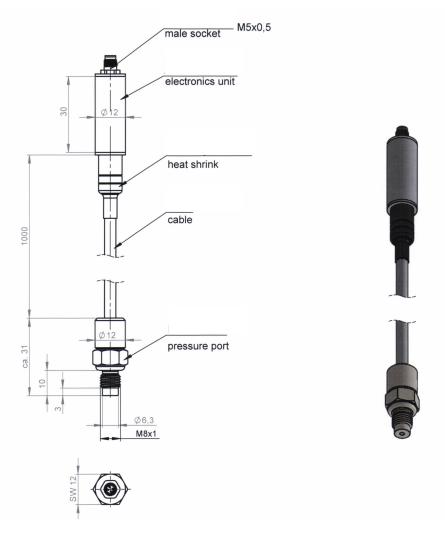
The EPT12R series is backed by a 1 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct installation of the transmitter.



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Dimensions



### Wiring

Output	PIN 1	PIN 2	PIN 3	PIN 4	
0.5 - 4.5V	+ Supply	- Supply	n/a	GND	

