

Pressure Sensor - EPT2100



Eurosensor

- Long life and high performance
- Light weight stainless steel design
- Low cost pressure measuring

The newly designed **EPT2100** is an ideal pressure transducer for various cost sensitive applications.

The silicon measuring cells used within this design coupled with the high level output circuitry, assures excellent accuracy and long term stability within a light weight design.

The silicon sensing element is compatible with many medias, including oil, compressed air and dry non aggressive gases and is suitable for applications with measuring ranges from **250 mbar to 40 bar**.



Specification

Performance		Shock	
Accuracy @ RT	% of the range < 1.00 (< 0.5 optional) BFSL ≤ 0.25 (incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)	Shock	1000 G, 11 msec., 1/2 Sine
Non-linearity	% of the range ≤ 0.15	Vibration	16 G peak, 20 to 2000 Hz
Repeatability	% of the range ≤ 0.10	Sealing	IP 66
Stability/year	% of the range ≤ 0.10	Electronics	
Overrange pressure	up to 2x rated pressure / max 69bar	Excitation	5 VDC for 0.5 – 4.5 V output, 10 - 32 VDC for 0 - 5 V, 1 - 5 V, 4...20 mA output 12 - 32 VDC for 0 - 10V output
Burst pressure	up to 5x rated pressure / max 103bar	Current consumption	< 7.5 mA
Pressure cycles	> 10 million	Short circuit protection	Yes
Environment		Reverse voltage protection	Yes
Temperature [°C]:		Mechanics	
Measuring medium	-40...125	Housing	304 stainless steel
Ambience	-40...105 (85 for 4...20mA output)	Wetted parts	Silicon, Aluminium, Silicone adhesive, Stainless Steel 304, NBR O-Ring seal
Storage	-40...105	Pressure port	see select table
Compensated range	-20...85	Electrical connection	see select table
Temperature coefficient within the compensated range:		Weight	ca. 25 g
Mean TC offset	% of the range ≤ 0,15 / 10K		
Mean TC range	% of the range ≤ 0,15 / 10K		

Ordering Information

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

Sample Code: EPT2100 - H - 01000 - B - 5 - A

Series	Port Configuration	Pressure Range	Pressure Unit	Output Signal *	Electrical Interface							
EPT 2100	B - 1/4 NPT G - 1/4"SAE Female 7/16" UNF Female incl. Schrader valve opener H - 3/8 x 24 UNF Male (Dash Size 3) J - M10x1,25 Female M10 - M10x1 Male	Please use code from table below	B - relative / gauge A - absolute	1 = 0..10 V 2 = 4..20 mA 3 = 1..5 V 4 = 0..5 V 5 = 0.5..4.5 V ratiometric	A - 600 mm cable C - Connector - Packard Metripac							
Pressure Range												
Bar	0.25	0.6	1.0	1.6	2.5	4	6	10	16	25	35	40
Order Code	00025	00060	00100	00160	00250	00400	00600	01000	01600	02500	03500	04000

Notes:

* Not all configurations are possible, please contact our sales team to verify your configuration

Custom options available on request

The EPT2100 series are backed by a 1 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct installation of the transmitter.

The following models are typically available from stock: **EPT2100-H-01000-B-5-A**
EPT2100-H-01600-B-5-A

Dimensions and wiring

Packard Metri-Pack

Cable

Connection colour codes

Type	Output	PIN A	PIN B	PIN C
Packard	0.5 - 4.5V 1 - 5 V 0 - 10 V	- Supply	+ Supply	Output +
	4..20mA	Current output -	+ Supply	N/A
	Output	Red	Black	White
Cable	0.5 - 4.5V 1 - 5 V 0 - 10 V	+ Supply	- Supply	Output +
	4..20mA	+ Supply	Current output -	N/A



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Subject to change without notice