

# Pressure Sensor - EPT9100



- Up to 1000 Bar pressure range
- High strength, rugged stainless steel design
- Competitively priced

The **EPT9100** is a high quality all stainless steel pressure transducer, intended for use in the measurement of gases and liquids compatible with stainless steel.

The **EPT9100** is suitable for automotive, industrial hydraulics, refrigeration, off-road, construction and agricultural applications.

With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the **EPT9100** assures trouble free operation at wide temperatures ranges.

The **EPT9100** piezo resistive 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 **EPT9100** high strength stainless steel construction contains no silicone oil and no internal O- rings. Measurements are available in ranges up to 1000 bar. The range is backed by a two-year warranty.



## Specification

Performance	
Accuracy	< +/-0.5% at RT
Non-linearity	≤ 0,2% FS of the range (≤ 0,1% FS after BFSL)
Repeatability	≤ 0.10% FS
Response time	< 1 ms
Stability (1 Year)	< ± 0.1 %
Overrange pressure	up to 2x rated pressure
Burst pressure	up to 5x rated pressure
Pressure cycles	> 10 million
Environment	
Temperature [°C]:	
Measuring medium	-40...125 (150 for ratiometric)
Ambience	-40...125; (105 for 4..20mA output)
Storage temperature	-40...125
Compensated range	-20...85
Temperature coefficient within the compensated range:	
Mean TC offset	≤ 0.15% FS/10K
Mean TC range	≤ 0.15% FS/10K
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G peak, 20 to 2000 Hz
Sealing	To IP 67, optional IP69K

Electronics	
Output → Supply	0 - 10 V → 12 - 32 VDC 4 - 20 mA → 10 - 32 VDC 0 - 5 V → 8 - 32 VDC not ratiometric 0.5 - 4.5V ratiometric with 5VDC
Output impedance	< 100 Ω
Current consumption	< 10 mA
Reverse voltage protection	Yes
Mechanics	
Housing incl. wetted parts	EPT9100 – 316 EPT910H – Hastelloy C276
Pressure port	see select table
Electrical connection	see select table



PITCH TECHNOLOGIES  
 Votre distributeur agréé  
 VARIOHM en France  
 01 34 85 54 68  
<https://pitch-technologies.fr>  
[info@pitch-technologies.fr](mailto:info@pitch-technologies.fr)

Subject to change without notice

# Pressure Sensor - EPT9100



Eurosensor

## Ordering Information

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

**Sample Code: EPT9100 - A - 01000 - B - 4 - A**

Series	Port Configuration	Pressure Range	Pressure Unit	Output Signal	Electrical Interface
EPT9100 - 316 EPT910H - Hastelloy	A - G1/4 A Form E B - 1/4 NPT	Please use code from table below	B - gauge pressure V - vacuum pressure	1 - 0 - 10V 2 - 4 - 20mA 4 - 0 - 5V 5 - 0.5 - 4.5V ratiometric	A - 600 mm cable C - Packard Metripac connector D - Standard EN175301-803-A connector F - M12x1 Round connector G - AMP Superseal

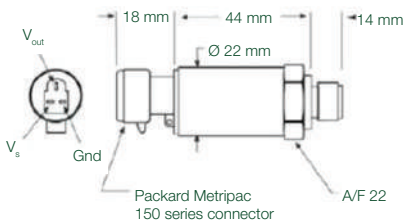
Custom options available on request

Pressure Range	
Bar	1 1,6 2,5 4 6 10 16 25 40 50 60 100 160 250 400 600 1000
Order Code	00100 00180 00250 00400 00600 01000 01600 02500 04000 05000 06000 10000 16000 25000 40000 60000 100000

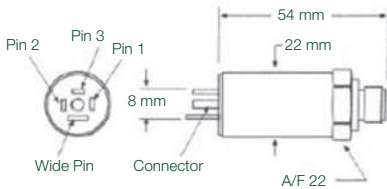
The EPT9100 series is backed by a 2 Year Warranty. The purchaser is responsible for compatibility of the media, functional adequacy and correct installation of the transmitter.

## Dimensions

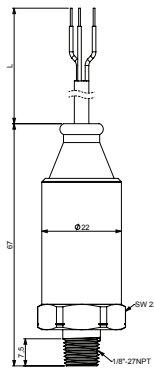
### Packard Metripac connector



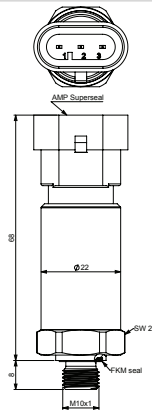
### DIN EN 175301-803 connector



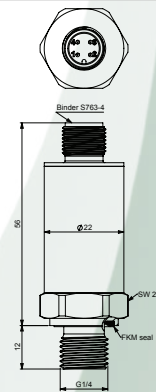
### Cable



### Amp Superseal



### M12x1



## Wiring

Type	Output	PIN 1	PIN 2	PIN 3	PIN 4
 DIN EN 175301-803-A and C	0,5 - 4,5V, 1 - 5 V, 0 - 10 V	+ Supply	- Supply	Output +	-
	4..20mA	+ Supply	Current output -	N/A	-
 Round connector M12x1 A	0,5 - 4,5V, 1 - 5 V, 0 - 10 V	+ Supply	N/A	- Supply	Output +
	4..20mA	+ Supply	N/A	Current output -	N/A
 Packard Metripac	Output	PIN 1	PIN 2	PIN 3	-
	0,5 - 4,5V, 1 - 5 V, 0 - 10 V	- Supply	+ Supply	Output +	-
 Amp Connector	Output	PIN 1	PIN 2	PIN 3	-
	0,5 - 4,5V, 1 - 5 V, 0 - 10 V	- Supply	+ Supply	Output +	-
 Cable	Output	Red	Black	White	-
	0,5 - 4,5V, 1 - 5 V, 0 - 10 V	+ Supply	- Supply	Output +	-
	4..20mA	+ Supply	Current output -	N/A	-

**PITCH TECHNOLOGIES**  
 Votre distributeur agréé  
**VARIOHM** en France  
 ☎ 01 34 85 54 68  
 🌐 <https://pitch-technologies.fr>  
 ✉ [info@pitch-technologies.fr](mailto:info@pitch-technologies.fr)



Variohm EuroSensor - Williams' Barn - Tiffeld Road - Towcester - Northants - NN12 6HP - UK  
 sales@variohm.com • www.variohm.com • +44 (0) 1327 351004

Subject to change without notice