Pressure Sensor - EPT31H2

- Up to 1000 Bar pressure range
- · High strength, rugged stainless steel design
- With EC79 and EC406 approval for use with Hydrogen

The EPT31H2 is a high quality all stainless steel pressure transducer, intended for applications around the measurement of hydrogen. With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the EPT31H2 assures trouble free operation at temperatures up to 125° C. Its 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 EPT31H2 high strength stainless steel construction contains no silicone oil and no internal O-rings.

Measurements are available in gauge, with ranges up to 1,000 bar and are backed by a one-year warranty.



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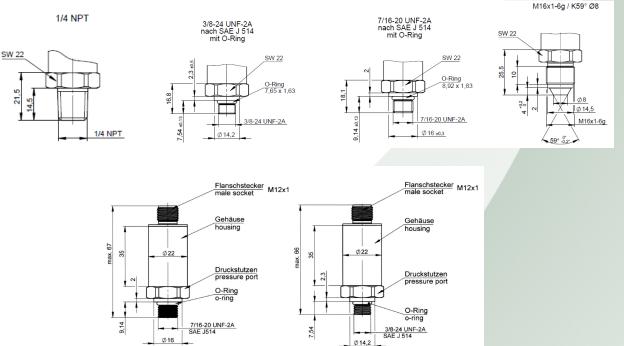
Specification

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Performance								
Accuracy @ RT	% of the range (gauge a sensors) < 0.5 BFSL ≤ 0.125	nd vacuum	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)					
Non-linearity	% of the range ≤ 0.30							
Repeatability	% of the range ≤ 0.20							
Stability/year	% of the range ≤ 0.20							
Response time	(1090%) t(ms)1							
Overrange pressure	up to 2x rated pressure							
Burst pressure	up to 5x rated pressure							
Pressure cycles	> 10 million							
Environment								
Temperature [°C]:								
Measuring medium	-40125							
Ambience Storage	-40105 -40125							
Compensated range	-2085							
Temperature coefficient within the compensated range:								
Mean TC offset	% of the range							
Mean TC range	% of the range	≤ 0,15 / 10K						
Shock	1000 G, 11 ms	ec., 1/2 Sine						
Vibration	25 G peak, 20 t	to 2000 Hz						
Sealing	IP 67, optional IP69K							

Electronics	
Output \rightarrow Supply	0.5 - 4.5V → 5V ratiometric 4 - 20 mA → 10 - 32 VDC
Output impedance	< 100 Ω
Current consumption	< 10 mA
Reverse voltage protection	Yes
Mechanics	
Material	stainless steel
Pressure port	see select table
Electrical connection	see select table
Weight	ca. 60 g

Dimensions in mm

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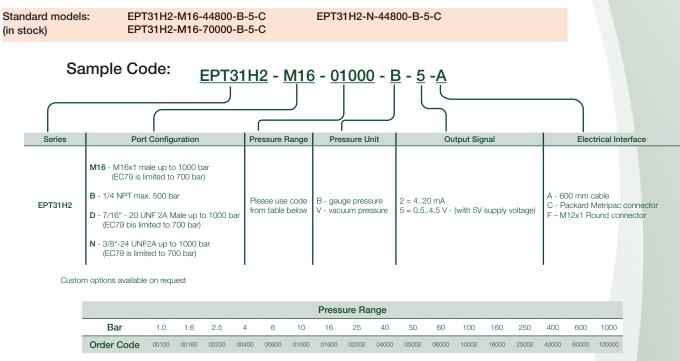
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Ordering Information

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



The EPT31H2 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.

Wiring

Туре		Output	PIN 1	PIN 2	PIN 3	PIN 4
	Round connector M12x1 A	0.5 - 4.5V , 1 - 5 V , 0 - 10 V	+ Supply	N/A	- Supply	Output +
		420mA	+ Supply	N/A	Current output -	N/A
	Packard Metripac	Output	PIN A	PIN B	PIN C	-
		0.5 - 4.5V , 1 - 5 V , 0 - 10 V	- Supply	+ Supply	Output +	-
		420mA	Current output -	+ Supply	N/A	-
		I ² C	N/A	N/A	N/A	-
	Cable assembly -	Output	Red	Black	White	Green
		0.5 - 4.5V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
		420mA	+ Supply	Current output -	N/A	-
		I ² C	V+	V-	SCL	SDA

