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.



Eurosensor

EC406

Specification

Performance		
Accuracy @ RT	% of the range (gauge and vacuum sensors) < 0.5 BFSL ≤ 0.125	(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 Ambience	-40125 -40105	

% of the range ≤ 0,15 / 10K

1000 G, 11 msec., 1/2 Sine

25 G peak, 20 to 2000 Hz

IP 67, optional IP69K

-20...85

Temperature coefficient within the compensated range:

Electronics	
Output → 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

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https://pitch-technologies.fr info@pitch-technologies.fr

Dimensions in mm

Storage

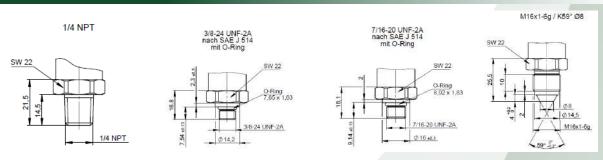
Shock

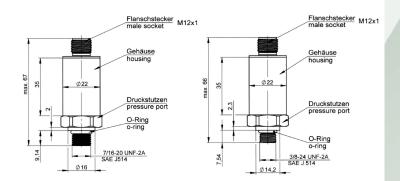
Vibration

Sealing

Compensated range

Mean TC offset Mean TC range







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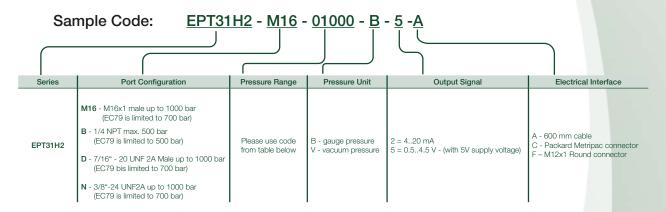
Ordering Information

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

EPT31H2-M16-44800-B-5-C

EPT31H2-M16-70000-B-5-C (in stock)

EPT31H2-N-44800-B-5-C



Custom options available on request

Pressure Range																	
Bar	1.0	1.6	2.5	4	6	10	16	25	40	50	60	100	160	250	400	600	1000
Order Code	00100	00160	00250	00400	00600	01000	01600	02500	04000	05000	06000	10000	16000	25000	40000	60000	100000

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
(10 03) 10 02	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	-
		Output	Red	Black	White	Green
	Cable assembly	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

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