

- Pressure range from 2000 to 5000 bar
- High strength, rugged Titanium design
- Excellent accuracy and long stability

The **EPT31HP (High Pressure)** is a high quality all stainless steel pressure transducer with wetted parts made from Titan. This way he is ideally suited for use in the measurement of gases and liquids with high pressures.

The sensor is suitable for industrial hydraulics, 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 **EPT31HP** assures trouble free operation at temperatures up to 125°C. The 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.

Specification

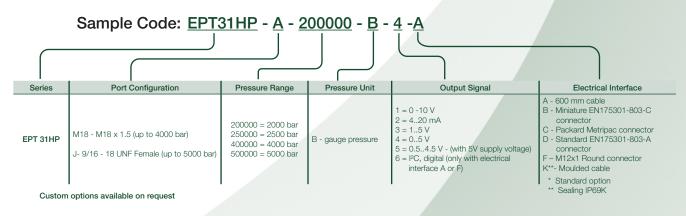
Accuracy @ RT	% of the range (gauge and vacuum sensors) < 1.0 BFSL ≤ 0.5	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)
Non-linearity	% of the range ≤ 0.30	
Repeatability	% of the range ≤ 0.20	
Stability/year	% of the range ≤ 0.20	
Response time	(1090%) t(ms)1	
Pressure cycles	> 10 million	

Range	p (bar)	2000	2500	4000	5000	
Overrange pressure	p (bar)	2400	3600	4800	6000	
Burst pressure	p (bar)	3000	4500	6000	7000	

Environment	
Temperature [°C]:	
Measuring medium	-40125
Ambience	-40105
Storage	-40125
Compensated range	-2085
Temperature coefficient within	
Mean TC offset	% of the range $\leq 0.15 / 10 \text{K}$
Mean TC range	% of the range $\leq 0,15 / 10K$
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G peak, 20 to 2000 Hz
Sealing	IP 66, optional IP69K
Electronics	
Output → Supply	0 - 10 V → 12 - 32 VDC 0 - 5 V→ 8 - 32 VDC non ratiometric 1 - 5 V → 8 - 32 VDC non ratiometric 0.5 - 4.5V → 5V ratiometric 4 - 20 mA → 10 - 32 VDC I ² C → 5 VDC
Output impedance	< 100 Ω
Current consumption	< 10 mA
Reverse voltage protection	Yes
Mechanics	
Housing	304 stainless steel
wetted parts	titanium
Pressure port	see select table
Electrical connection	see select table
Weight	ca. 60 g

Ordering Information

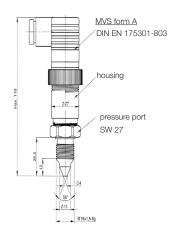
(Please use the characters in the chart below to construct your product code)



The EPT31HP 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.

Pressure Sensor - EPT31HP





Wiring

Гуре	Output	PIN 1	PIN 2	PIN 3	PIN 4
DIN EN	0.5 - 4.5V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	420mA	+ Supply	Current output -	N/A	-
	l ² C	N/A	N/A	N/A	-
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
	l ² C	1 V+	2 V-	3 SCL	4 SDA
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	-
	l 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	-
	l ² C	V+	V-	SCL	SDA



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