Pressure sensor for harshest conditions "Hammer Union"

Model P3450





Description

Robust and long-term stability during operation are the advantages of this pressure sensor for harsh environments. The used materials and technologies make this sensor insensitive to chemically aggressive media and mechanical stress.

Applications for these extremely robust sensors are the offshore industry, different areas of natural gas production as well as various applications in the cement industry.

The wetted parts of these pressure sensors are made of Inconel X-750. All metallic compounds are welded so that the inner life of the sensor is protected. The electrical connection with the Bendix PTIH-10-6P plug is a guarantee for the robustness of the complete construction.

The sensors are attached to the process in a Wing Union or Hammer Union. The pressure sensors correspond to the electro-magnetic compatibility (EMC) to EN 61326.

Features

- Wetted parts made of Inconel X-750
- · Highest shock and vibration resistance
- Wide temperature range
- High accuracy (0.25% of F.S.)

Measuring ranges

0 ... 5,000 psi

0 ... 10,000 psi

0 ... 15,000 psi

0 ... 20,000 psi

others on request

Applications

Offshore

Petrochemical industry

Blow out preventer (BOPs)

Gas exploration (Hydraulic Fracturing)

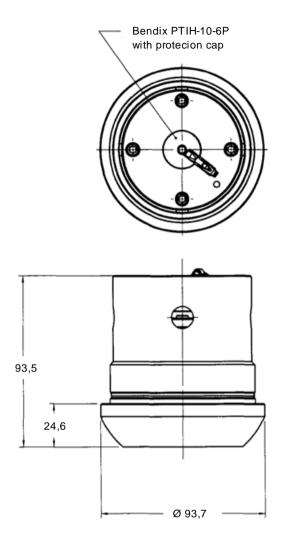
Cement industry

Technical data

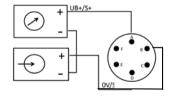
Model	P3450
Pressure	Gauge pressure
	0 5,000 psi (0345 bar)
	0 10,000 psi (0690 bar)
Measuring range	0 15,000 psi (01,034 bar)
	0 20,000 psi (01,379 bar)
	others on request
Max. Overload	1.5 x of F.S. (max. 22,500 psi)
Burst pressure	3 x of F.S. (max, 22,500 psi)
Sensor element	Bonded foil strain gauge
Output signal	420 mA, 2 w ire
Accuracy ¹⁾	±0.25% BFSL
Materials	
Housing	Stainless steel
Wetted parts	Inconel X-750
Pressure connection	Wing Union 1502
Electrical connection	Bendix PTIH-10-6P
	others on request
Pow er supply / Burden	1028 VDC $R_A [\Omega] \le (U_B [V] - 10V) / 0.02A$
Certifiation	CSA
CE conformity	2004/108/EWG interference emission and immunity see EN 61326
Temperature influence	
Zero point	±0.02% of F.S. / °C
Span	±0.02% of span / ℃
Temperature range	
Compensated range	+5°C +60°C
Storage	-4085°C
Media	-4085°C
Ambient	-4085°C
Resistance	1000
Shock(mechanical)	100g
Weight	2.65kg

¹⁾ Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of measurement per IEC 61298-2).

Dimensions (mm)



Electrical connection



A: UB+/S+

B: 0V /S-

C: - Cal

D: + Cal

E: GRD

Subject of technical changes