

PRODUCT OVERVIEW

PRESSURE MEASUREMENT

MAC Sensor Co.,LTD.
Changsha City,Hunan,China
<http://www.macsensor.com>
TEL: +86-731-89975636 / 89975645

P2002 Hammer Union Pressure Sensor



Characteristics

- ☆0.5%F.S accuracy with small measurement error
- ☆Good long-term stability $\pm 0.2\%FS/\text{year}$
- ☆Easy to install with compact structure
- ☆Quick dynamic response and low temperature drift
- ☆High-quality nickel-plated stainless steel, corrosion-resistant
- ☆Anti-vibration, anti-impact
- ☆IP67 high protection class

Applications

- ☆Fracturing trucks
- ☆Cementing trucks
- ☆Piston pump equipment
- ☆New well development and production
- ☆Oil and gas drilling
- ☆Wellhead measurement
- ☆Process control

Profiles

P2002 hammer union pressure sensor can be compatible with the Weco[®] hammer union FIG2002. The materials used fully comply with the American ASTM and AISI standards. With its fully welded integrated structure, P2002 significantly improves the airtightness of the joint process with the union connector. This design effectively prevents medium leakage caused by the structure and enhances the overall safety of the pressure sensor in the petroleum industry.

The sensor is encased in stainless steel packaging, and its wet parts are crafted from 17-4PH alloy, commonly used in petrochemical, shipbuilding, offshore engineering, and aerospace applications. It undergoes rigorous fatigue impact testing, with thousands of tests conducted before leaving the factory. P2002 boasts fast dynamic response, high precision, and strong resistance to vibration, fatigue, and eccentric load. It is built to be durable, sturdy, and highly corrosion-resistant.

Equipped with a built-in anti-interference amplifier circuit, the transmitter ensures reliable signal output even under complex conditions. The product features a spherical seal, making it easy to install and use. It is suitable for various exploration and mining working conditions, including the harsh environments of oil field stimulation and circulation.

Specifications

Parameter	P2002
Inlet pressure interface	2 Inch 51mm tube, Weco® hammer Union FIG2002
Measuring range	0~5000,0~6000,0~10000,0~15000k,0~20000, 0~25000Psi optional
Accuracy	0.5%FS or by customized
Safe overload pressure	200%F.S
Burst overload pressure	500%F.S
Output	4~20mA, 0~5V optional
Powered by	10~36VDC
Operating temperature	-40℃~125℃
Long-term stability	±0.2%FS/year
Zero temperature drift	±0.1%FS/10℃ or customized
Full scale temperature drift	±0.3%FS/10℃ or customized
Response time	≤1 millisecond
IP rating	IP67
Shell material	316 stainless steel
Wet part material	17-4PH
Insulation resistance	≥1000MΩ/500VDC
EMC electromagnetic field radiation anti-interference	GB/T 17626.3-2016
EMC electrostatic discharge	GB/T 17626.2-2018
Electrical connections	4/6 pin aviation connector

Order Information

<div><div>P2002 (Model)</div><div>Item</div></div>	1	A	S51	1	A
Electrical connection	1=4-pin aviation connector 2=6-pin aviation connector				
Output	A= 4-20mA D=0-5V				
Power Supply	S51=10-36Vdc				
Pressure Measurement	1=5000Psi 2=6000Psi 3=10000Psi 4=15000Psi 5=20000Psi 5=25000Psi				
Accuracy	1=0.5%F.S X=By customized				