

Hydraulic Pressure Sensor PS-4001



Product Features:

Advanced micro fused silicon strain gauge Leak free elastomer structure Integrated temperature compensation Highly corrosion resistant SS housing Excellent shock, overload, & vibration resistance Independent pressure outputs **Applications:** Industrial process and control

Automated detection

Hydraulic and full-motion control

Water treatment system

Industrial machinery manufacturing

Pumping stations

Product Description

Hydraulic pressure sensor PS-4001 adopts advanced glass micro-melting process, after high temperature sintering above 500 °C, the elastomer adopts integrated design, no "O" ring, no welding seam, no hidden leakage, and strong corrosion resistance. Intelligent digital wide-range temperature compensation solves the temperature drift phenomenon of the sensor and improves the measurement accuracy and environmental adaptability of the sensor. Products are widely used in excavators, crane hydraulic systems, oil cylinder hydraulics, compressors, gas dispensers, refrigerators, refrigeration systems, pneumatic control equipment, industrial process testing and control and automated testing systems.

Pressure type	gauge pressure
Pressure range	0~100MPa
Output signal	4~20mA, 0.5~4.5VDC (proportional output)
Accuracy	±0.5%FS、±1%FS
Supply voltage	15~30VDC、5VDC
Storage temperature	-40°C∼+125°C
Medium temperature	-40℃~+125℃
Temperature compensation	-10℃~+70℃
Long term stability	≤±0.2%FS/year
Overload allowed	300%FS
Destruction pressure	500%FS
Shock (11ms)	100g
Zero temperature drift	< 0.02%FS/℃
Full temperature drift	< 0.02%FS/°C
Pressure port	M20*1.5, G1/4 (others need to be customized)
Electrical connections	M12 (cannot be customized)
Protection class	IP67
Material	304 stainless steel

External structure

