

General Purpose Hydraulic Pressure Sensor

Product Model: FST800-4001

Firstrate

FST800-4001 pressure sensor 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.

◆ Features

- ✓ Advanced glass micro-melting process, flexible overall structure design, no leakage hidden danger
- ✓ Efficient lightning protection, anti-RF and electromagnetic interference protection
- ✓ Advanced temperature digital compensation function, wide operating temperature range, compact size
- ✓ High precision, high frequency response, good long-term stability
- ✓ Excellent resistance to corrosion, wear and vibration



◆ Scope of application

- ◇ Industrial Process Detection and Control
- ◇ Automated inspection system
- ◇ Industrial Machinery Manufacturing
- ◇ Hydraulic and Pneumatic Control Systems
- ◇ Pumping Stations and Water Treatment Systems

◆ Technical parameter

Range	0~100MPa (gauge pressure)	Output signal	4~20mA, 0.5~4.5VDC (proportional output)
Accuracy	±0.5%FS, ±1%FS	Signal Line Specifications	2Wire/3Wire
Supply voltage	15~30VDC, 5VDC	Medium temperature	-40°C~+125°C
Storage temperature	-40°C~+125°C	Temperature compensation	-10°C~+70°C
Long term stability	≤±0.2%FS/year	Overload allowed	300%FS
Destruction pressure	500%FS	Shock (11ms)	100g
Zero temperature drift	<0.02%FS/°C	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

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◆ Product Dimensions

