



Model PSC812

Pressure Transducer for Heavy Industry and General Purpose Industrial Applications

Model PSC812 Pressure Transducer was developed for all types of industrial applications. The design is based on high temperature, inorganically bonded, media isolated, piezoresistive technology and offers reliable and accurate measurements under harsh environmental conditions. Robust construction of PSC812 offers stable operation when subjected to shock and vibration and has EMI and RFI immunity per CE requirements. Suitable for use in Off-road vehicles, injection molding machines, Hydraulic Pumps and controls, etc.

State of the art design machined from a solid piece of 17-4PH stainless steel provides a leak-proof, all metal sealed system. There are no O-rings, welds or organics exposed to the pressure media. Features digital compensation and temperature correction for high accuracy and stability. All wetted parts are 17-4PH stainless steel.



- **Gauge Pressures**
- **ASIC Temperature Compensated**
- **Robust construction to stand high vibrations**
- **2 % Total Error Band**
- **Output Impedance:** <100 ohms
- **Wetted Parts:** 17-4PH SS
- **Process Fitting:** 1/4"-18 NPT
(see model type for others available)
- **Electrical Connection:** Packard connector

Sample Applications:

- Process Automation & Control
- Plastic and Alloy Injection machines
- Test and Measurement Equipment
- Factory Automation
- Energy Management
- Heavy industry

PRESSURE SENSOR LIMITED

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Pressure-Sensor.com

Precision Sensor Solutions from Pressure Sensor Limited

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REV-02

Model PSC812

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PSC812 Ordering Model NO.: PSC812-X-Y-Z

X Output Type

B = 0.5~4.5V
C = 4~20mA

Y Pressure Range

3 = 100 psi
4 = 250 psi
5 = 500 psi
6 = 1000 psi
7 = 2500 psi
8 = 5000 psi
9 = 10000 psi

Z Port Type

1 = 1/8-27 NPT
2 = 1/4-18 NPT
3 = DIN3852-A-G1/4
4 = DIN3852-E-G1/4
5 = DIN3852-A-M10*1.0
6 = DIN3852-A-M12*1.5
7 = 7/16-20 UNF

PSC812-B (0.5~4.5VDC output)

Performance (specified @ 25°C)	
Accuracy(Best fit straight line)	+/- 0.25% FS
Supply Voltage, Polarity protected	9 ~ 30VDC
Output	0.5 ~ 4.5 VDC
Supply Current	< 8 mA
Error	+/- 2.0% FS TEB
Zero Offset	0.5 VDC
Full Scale Output	4.5 VDC
Compensated Temperature Range	-20 ~ 85 °C
Operating Temperature Range	-20 ~ 85 °C
Storage Temperature Range	-40~ 85 °C
Burst Pressure	3 X Full Scale
Proof Pressure	2 X Full Scale

PSC812-C (4~20mA output)

Performance (specified @ 25°C)	
Accuracy(Best fit straight line)	+/- 0.25% FS
Supply Voltage, Polarity protected	9 ~ 30VDC
Output	4 ~ 20 mA
Supply Current	>30 mA
Error	+/- 2.0% FS TEB
Zero Offset	4 mA
Full Scale Output	20 mA
Compensated Temperature Range	-20 ~ 85 °C
Operating Temperature Range	-20 ~ 85 °C
Storage Temperature Range	-40~ 85 °C
Burst Pressure	3 X Full Scale
Proof Pressure	2 X Full Scale

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Reliability	
Stability (typical)	<+/-0.25% full scale per year
Pressure Cycles	10 million full scale cycles
Vibration	20 to 2KHz, 50g, 11msec Half Sine Shock per MIL-STD-202F, Method 213B, Condition A
Shock	(11ms) ±20g, MIL-STD-810C, Procedure 514.2, Fig 514.2-2, Curve L
Environmental conditions	

Structure reference (Unit: mm)

