



Pressure Transducer for General Purpose Industrial Applications

Model PSC312 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 the PSC312 provides stable operation when subjected to shock and vibration. Suitable for use in OEM machinery, process control, automation, plastic and alloy injection molding machines, hydraulic pumps, 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
- 3 % 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



Model PSC312 Pressure Transducer for General Purpose Industrial Applications

PSC312 Ordering Model No.: PSC312-X-Y-Z-X

X Output Type	Y Pressure Range	Z Port Type	X Special configurate consult factory
B = 0.5~4.5V (Ratiometric)	3 = 100 psi	1 = 1/8-27 NPT	
C = 4~20mA	4 = 250 psi	2 = 1/4-18 NPT	
D = 1.0~5.0V	5 = 500 psi	3 = DIN3852-A-G1/4	
X= Special	6 = 1000 psi	4 = DIN3852-E-G1/4	
	7 = 2500 psi	5 = DIN3852-A-M10*1.0	
	8 = 5000 psi	6 = DIN3852-A-M12*1.5	
	9 = 10000 psi	7 = 7/16-20 UNF	
	X= Special	X= Special	

PSC312-B(Ratiometric output)

Performance (specified @ 25°C)	
Accuracy(Best fit straight line)	+/- 1% FS
Supply Voltage, Polarity protected	4.75~5.25VDC
Output	0.5 ~ 4.5 VDC(Ratiometric)
Supply Current	< 8 mA
Error	+/- 3.0% 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

PSC312-C (4~20mA output)

Performance (specified @ 25°C)	
Accuracy(Best fit straight line)	+/- 1% FS
Supply Voltage, Polarity protected	4.75~5.25VDC
Output	4 ~ 20 mA
Supply Current	30 mA
Error	+/- 3.0% 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

Model PSC312

Pressure Transducer for General Purpose Industrial Applications

PSC312-D (1.0~5.0VDC Output)

Performance (specified @ 25°C)	
Accuracy(Best fit straight line)	+/- 1% FS
Supply Voltage, Polarity protected	10~30VDC
Output	1.0~5.0 VDC
Supply Current	< 8 mA
Error	+/- 3.0% FS TEB
Zero Offset	1.0 VDC
Full Scale Output	5.0 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

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)

