

Model P980

Pressure Transducer



P980 series pressure transducers are designed for high reliability and stability. The construction is a monolithic structure with a bonded foil strain gauges. Provides excellent stability to pressure spikes from the fluids or gas being measured. High overload protection is an integral part of the design. These units are capable of sensing extremely small changes of applied pressure and are insensitive to vibration and shock.

Model Specifications

Pressure Ranges Available:	0 to 20,000 PSI (0.7 to 700 bars)
Pressure Reference	Gauge, Sealed Gauge or Absolute
Pressure Limit	< 5x full range pressure or 12,000 PSI whichever is less
Burst Pressure	> 10x full range pressure or 20,000 PSI whichever is less
Response Time	<2msec(TYP)

Physical Description

Wetted material	17-4 PH and 316L stainless steel or Inconel 718, Monel K 500
Electrical Connection	1m Cable or Connector

Environmental Data

Temperature	
Operating Range	-65 °F to 250 °F (-54 °C to 120 °C)
Compensated Temp Range	32 °F to 212 °F (0 °C to 100 °C)

Humidity	
Plug Outlet	95% Relative Humidity
Cable Outlet	

Acceleration Response	
	< 0.02% F.R.O./g
Natural Frequency	
	40 kHz-60kHz pressure range depend

Insulation Resistance	500 Mohm at 50 VDC
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Mechanical	
Shunt Calibration	80% ±5% full range pressure(optional)
Residual Unbalance	≤1% FSO amplified , ≤2% FSO mV/V output
Process Connection	1/4 BSPP Male, 7/16-20 UNF Male M14x1.5 Male

Applications

Hydraulic Pressure Monitoring
Torpedo Depth Sensing
Vehicle Brake System Monitoring
Military and Commercial Aircraft
Steel Mills

Benefits

Rugged Design for Harsh Environments
Versatile Packaging Design
Low and High Level Output Signals
High Accuracy Thermal Compensation
High Overpressure Capability
All Monolithic Construction

AMERICAN SENSING AMHERST, NY 14228 CAGE CODE: 8RPR4	REV -	Configuration Control 1	Document Name P980	Sheet 1 of 2
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AMERICAN SENSING INC.

Ordering Information

P980 **A** **C** **00100** **P** **4** **Q** **0** **001**
MODEL

Pressure Reference

A = Absolute

O = Sealed Guage

G = Gauge

Process Connection

C = 1/4 BSPP Male

F = 7/16-20 UNF Male

G = M14x1.5 Male

Pressure Measurement

See Pressure Code Chart, always five digits

Pressure Unit

B = bar

P = psi

Outputs

2=0-5VDC

4 = 4-20 mA

Electrical

Q = 1m cable

Wetted Material

0 = 17-4PH

5- Monel K 500

2 = Inconel 718

Options

Blank = No options

001 = Custom Options, See Factory

x in any space = speical

*for additional options or to create your own, contact ASI

Pressure Code Chart

PSI	Pressure Code
0 to 100	00100
0 to 1000	01000
0 to 2500	02500
0 to 5000	05000
0 to 10000	10000
0 to 20000	20000

* Custom options available

Standard Wiring 2-Wire/ Current		Wiring 3-Wire Voltage		mV/V Wiring	
1/A	+Excitation	1/A	+Excitation	1/A	+Excitation
2/B	Output/-Exc	2/B	Output/-Exc	2/B	+ Output
3/C		3/C	+ Output	3/C	-Output
4/D		4/D		4/D	-Excitation
5/E		5/E		5/E	
6/F		6/F		6/F	

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