

## AMERICAN SENSING INC.

#### Model P980

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.

#### Pressure Transducer

#### 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**

#### **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 Monolitic Construction

#### **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

40 kHz-60KHz pressure range depend **Natural Frequency** 

Insulation Resistance 500 Mohm at 50 VDC

Mechanical

Shunt Calibration 80% ±5% full range pressure(optional) Residual Unbalance <1% FSO ampifyed , <2% FSO mV/V output

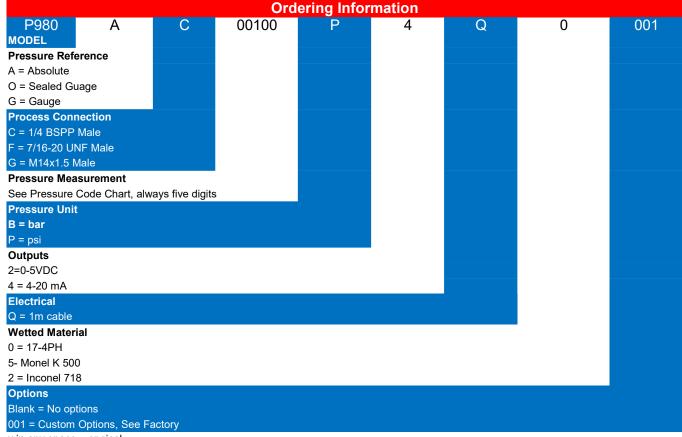
1/4 BSPP Male, 7/16-20 UNF Male **Process Connection** 

M14x1.5 Male

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x in any space = speical

*for additional options or to create your own, contact ASI							Pressure Code Chart		
Standard	Wiring 2-Wire/						PSI	Pressure Code	
Current		Wiring 3-Wire Voltage		mV/V Wiring			0 to 100	00100	
1/A	+Excitation	1/A	+Excitation	1/A	+Excitation		0 to 1000	01000	
2/B	Output/-Exc	2/B	Output/-Exc	2/B	+ Output		0 to 2500	02500	
3/C		3/C	+ Output	3/C	-Output		0 to 5000	05000	
4/D		4/D		4/D	-Excitation		0 to10000	10000	
5/E		5/E		5/E			0 to 20000	20000	
6/F		6/F		6/F			* Custom options	available	
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