



# Model 40 Standard

## Stainless Steel Media Isolated Pressure Sensor

Series  
40

### Features

- High Strength Stainless Steel Construction.
- No silicone oil, no internal o-rings, no welds.
- Wide operating temperature range.
- Ranges up to 10,000 PSI.
- Rugged design survives harsh environments.
- Compatible with wide range of gases and liquids.
- Suitable for high shock and vibration applications.

### Specifications

Performance @ 25 °C (77 °F)	
Accuracy <sup>1</sup>	<±0.5% BFSL
Stability (1 year)	±0.25%FS, typ
Proof Pressure	2X Rated Pressure
Burst Pressure	5X or 20,000 PSI, whichever is less
Wetted Material	17-4PH S.S. (NACE compatible) (for other material consult factory)
Pressure Cycles	> 100 Million

<sup>1</sup> Accuracy includes: Non-linearity, Hysteresis and Non-repeatability

Physical Description	
Case	304 Stainless Steel
Pressure Fittings	1/8" MNPT, 1/4" MNPT (for others consult factory)
Electrical Connection	Cable, Mini DIN, or Packard (for others, consult factory)

Environmental Data	
<b>Temperature</b>	
Operating	-40 to 85°C (-40 to 185° F)
Storage	-40 to 125°C (-40 to 250° F)
<b>Thermal Limits</b>	
Compensated Range	0 to 55°C (30 to 130° F)
TC Zero	<±1.5% of FS (<±3.0% for 0-25 PSI)
TC Span	<±1.5% of FS
<b>Other</b>	
Shock	100G, 11msec, 1/2 sine
Vibration	20G Peak, 20 to 2400 HZ
Rating	IP-66
EMI/RFI Protection	Yes



Electrical Data		
Excitation	5VDC, typ.	10-28 VDC
Output	0-50mV	1-5 V & 4-20mA
Output Impedance	1100 Ohms, nom.	100 Ohms, nom. -
Current Consumption	<5mA	<10mA & 25mA max
Bandwith (-3dB)	DC to 5kHz, min.	DC to 1kHz & 250Hz
Output Noise	N/A	<2mV RMS
Reverse polarity	N/A	YES
Zero Offset	<±2% of FS	<±1% & 1.5% of FS
Span Tolerance	<±2% of FS	<±2% of FS
Output Load	> 1M Ohms	10k Ohms, min. For voltage output for 4-20mA, see Load Line Curve
Agency Approvals	UL/CUL 508 for all models	

Pressure Ranges* <sup>+</sup>			
Gage psig	Proof psig	Burst psig	Pressure Range Code
0-25	50	250	00025
0-50	100	250	00050
0-100	200	500	00100
0-200	400	1,000	00200
0-500	1,000	2,500	00500
0-1,000	2,000	5,000	01000
0-2,500	5,000	12,500	02500
0-5,000	10,000	20,000	05000
0-7,500	15,000	20,000	07500
0-10,000	20,000	20,000	10000

\* Typical Ranges. All ranges between 0-25psi and 0-10,000psi are available. Please consult factory.

<sup>+</sup> Vacuum calibration available. Please consult factory. Specifications are subject to change without notice.

## Ordering Information

Construct a product code using the chart below. (Consult factory for other options)

# 40-A-00500-B-3-E-0-000

Series Type	Process Connection	Pressure Range	Pressure Unit	Outputs	Electrical Interface	Wetted Material	Options
40 Standard	<b>X= Special</b> <b>A= 1/4" MNPT</b> <b>B= 1/8" MNPT</b> <b>F= 7/16" -20 UNF Male</b> <b>C= 1/4" BSPP Male</b> <b>D= 1/8" BSPP Male</b> <b>E= 1/2" MNPT</b> <b>H= 1/8" FNPT</b> <b>J= 1/4" FNPT</b>	<b>XXXXX= Special</b>  Insert Pressure Range from Chart  <b>Vacuum=V0000</b> -14.7psig/-1.01bar	<b>X= Special</b> <b>B= BAR</b> <b>K= kg/cm<sup>2</sup></b> <b>P= PSI</b>	<b>X= Special</b> <b>1= 10mV/V</b> <b>2= 0.5-4.5V ratiometric</b> <b>3= 1-5V/DC</b> <b>4= 4-20mA</b> <b>6= 1-6V</b> <b>A= 0-50mV</b>	<b>X= Special</b> <b>A= 2Ft. Cable</b> <b>B= 4Ft. Cable</b> <b>C= 6Ft. Cable</b> <b>D= 10Ft. Cable</b> <b>E= Mini DIN 43650</b> <b>F= Packard Metripack 150 3 pin connector</b> <b>G= 4 pin Molex connector</b> <b>H= Flex Strip 3"</b>	<b>X= Special</b> <b>0= 17-4 PH</b> <b>1= 316 L</b> <b>2= Inconel</b>	<b>XXX= Special</b> <b>000= No Options</b> <b>A10= ±0.10 Accuracy</b> <b>A25= ±0.25 Accuracy</b> <b>C01 Calibration 1-9</b> <b>C10 Calibration 10-49</b> <b>C50 Calibration 50-up</b>

## Dimensional Information

**4-20mA LOAD LINE CURVE**

Supply Voltage	Line Impedance
10	0
20	500
30	1000

**Connector Pin-out**

**Table 1**

Output	Pin 3	Pin 2	Pin 1
1-5V	+V Supply	-V Supply	Output
4-20mA	+V Supply	-V Supply	N/C