



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

## Dimensional Information

