



Features

- High strength stainless steel construction.
- No silicone oil, no internal o-rings, no welds.
- Wide operating temperature range.
- Ranges up to 10,000 psig.
- 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 ¹	<±0.25% BFSL
Stability (1 year)	±0.25% FS, typ.
Proof Pressure	2X Rated Pressure
Burst Pressure	5X or 25,000 psig, whichever is less
Pressure Cycles	> 100 Million
Agency Approval	CSA 30 (UL 1203) Class 1, Div. 1 Explosionproof, Groups A,B,C & D

¹ Accuracy includes: Non-linearity, Hysteresis, and Non-repeatability

Physical Description	
Case	304 Stainless Steel
Wetted Material	17.4 PH Stainless Steel (NACE compatible) (For other materials, consult factory)
Electrical Connection	2 or 4 feet, 18 AWG Wires with 1/2" MNPT conduit only. (For other lengths consult factory)

Environmental Data	
Temperature	
Operating	-40 to 85°C (-40 to 185°F)
Storage	-55 to 125°C (-65 to 250°F)
Thermal Limits	
Compensated Range	0 to 55°C (30 to 130° F)
Temp. Comp. Zero	<±1.5% of FS
Temp. Comp. Span	<±1.5% of FS
Other	
Shock	100G, 11msec, 1/2 sine
Vibration	10G Peak, 20 to 2400 Hz
Rating	IP-66
EMI/RFI Protection	Yes



Electrical Data		
Output	4-20mA	1-5V, 1-6V
Excitation	10-28VDC, typ.	10-28VDC, typ.
Output Impedance	-	<100 Ohms, nom.
Current Consumption	25mA max.	<10mA
Bandwidth (-3dB)	DC to 250Hz	DC to 1kHz
Output Noise	-	<2mV RMS
Reverse Polarity	Yes	Yes
Zero Offset	<±1% of FS	<±1% of FS
Span Tolerance	<±2.0% of FS	<±1.5% of FS
Output Load	See Load Line Curve Below	5k Ohms, min.

Pressure Ranges*			
Gage psig	Proof psig	Burst psig	Pressure Range Code
0-50	100	250	00050
0-100	200	500	00100
0-200	400	1,000	00200
0-250	500	1,250	00250
0-500	1,000	2,500	00500
0-1,000	2,000	5,000	01000
0-2,000	4,000	10,000	02000
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 0-50 psig and 0-10,000 psig are available. Please consult factory.

Ordering Information

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

46-A-00500-P-3-U-0-000

Series Type	Process Connection	Pressure Range	Pressure Unit	Outputs	Electrical Interface	Wetted Material	Options
46 Standard	X= Special A= 1/4" MNPT E= 1/2" MNPT J= 1/4" FNPT	XXXXX= Special Insert pressure range code from pressure range chart.	X= Special B= BAR K= kg/cm ² P= psig	X= Special 3= 1-5V/DC* 4= 4-20mA** 6= 1-6V * 3 wire case connection ** 2 wire 100p powered and case connection	X= Special T= 2ft. cable, 18AWG wire U= 4ft. cable, 18AWG wire	X= Special 0= 17.4 PH 1= 316L 2= Inconel 718	XXX= Special 000= No options

Dimensional Information

