

Features

- High Strength Stainless Steel Construction.
- No silicone oil, no internal o-rings, no welds.
- Wide operating temperature range.
- Pressure 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.
- Panel up to 3" thick.

Specifications

Performance @ 25°C (77°F)	
Accuracy ¹	<±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

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

Physical Description	
Pressure Fittings	1/8" Female NPT
Electrical Connection	Molex, Flex Strip or Cable

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)
TC Zero	<±1.5% of FS (<±3.0 % for 25 psi)
TC Span	<±1.5% of FS
Other	
Shock	100G, 11msec, 1/2 sine
Vibration	20G Peak, 20 to 2000 HZ
Rating	IP-66 with housing and cable seal only. IP-54 w/o housing



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*			
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

Other ranges available, please consult factory
*Output=5mV/V
Specifications are subject to change without notice.

Ordering Information

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

42-A-00500-B-3-E-0-000

Series Type	Process Connection	Pressure Range	Pressure Unit	Outputs	Electrical Interface	Wetted Material	Options
42 Panel Mount	X= Special H= 1/8" FNPT	XXXXX= Special Insert Pressure Range from Chart Vacuum=V0000 -14.7psig/-1.01 bar	X= Special B= BAR K= kg/cm ² P= PSI	X= Special 1= 10mV/V F= 5mV/V 3= 1-5V/DC 4= 4-20mA	X= Special G= 4 pin Molex connector H= Flex Strip 3" A= 2ft Cable B= 4ft Cable C= 6ft Cable D= 10ft Cable	X= Special 0= 17-4 PH 1= 316 L 2= Inconel	XXX= Special 000= No Options A10= ±0.10 Accuracy A25= ±0.25 Accuracy C01 Calibration 1-9 C10 Calibration 10-49 C50 Calibration 50-up

Dimensional Information

Configuration allows epoxied or TIG welded housing attachment (0.810" ID / 0.875" OD)

(V+) Supply
(S+) Output
(S-) Output
(V-) Supply

4-pin Molex Connector (Mating connector is - Molex p/n 22-01-3047 with pins p/n 08-50-0114)

NOTE:
1. Use Greenlee Punch Unit #60086 to prepare the panel hole. Also available from McMaster-Carr as #3449A65.

Jacketed Cable, 2 ft. long, 0.177" dia.

(+V) Supply - Red
(-V) Supply - Black
Shield

4-20mA LOAD LINE CURVE

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