

Features

- CSA Approved for use in hazardous areas including:
 - CSA 30 (UL1203/FM3615) Class 1 Zone 1 Group IIC
 - CSA 30 Class 1 Div 1 Groups A, B, C, D Explosionproof
 - CSA 30 Class 2 Div 1 Groups E, F, G Dust Ignition-proof
- ANSI/ISA - 12.27.01.2003 Certified "Single Seal" (no need for expensive secondary seal)
- High strength stainless steel construction
- No silicone oil, no internal o-rings, no welds
- Wide operating temperature range
- Ranges from 15 to 20,000 PSI (Factory Sealed Gauge)
- Rugged design survives harsh environments
- Compatible with wide range of gases and liquids
- Suitable for high shock and vibration applications
- ABS (American Bureau of Shipping) Approved

Specifications

Performance @ 25 °C (77 °F)	
Accuracy ¹	<±0.25% BFSL <± 0.5% BFSL 7500 to 20000 PSI
Stability (1 year)	±0.25% FS, typ.
Proof Pressure	2X Rated Pressure
Burst Pressure	5X Rated Pressure or 50,000 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
Electrical Connection	Refer to Ordering Information
Wetted Material	Refer to Ordering Information

Environmental Data	
Temperature	
Operating	-40 to 85°C (-40 to 185°F)
Storage	-55 to 105°C (-67 to 221°F)
Thermal Limits	
Compensated Range	0 to 55°C (32 to 130° F)
Temp. Comp. Zero	<±1.5% of FS (±3% for -40°C)
Temp. Comp. Span	<±1.5% of FS (±3% for -40°C)
Other	
Shock	100G, 11msec, 1/2 sine
Vibration	10G Peak, 20 to 2000 Hz
EMI/RFI Protection	Yes
Rating	IP-66



Electrical Data		
Output	4-20mA	1-5V, 1-6V
Excitation	10-28VDC, typ.	10-28VDC
Output Impedance	>10k Ohms	<100 Ohms, nom.
Current Consumption	25mA, Max	5mA, typ.
Bandwidth (-3dB):	DC to 250Hz	DC to 1kHz
Output Noise	-	<2mV RMS
Zero Offset	<±1% of FS	<±1% of FS
Span Tolerance	<±2% of FS	<±1.5% of FS
Output Load	0-800 Ohms @ 10-28VDC	5k Ohms, Min.
Reverse Polarity	Yes	Yes

Pressure Ranges*			
Gauge psig	Proof psig	Burst psig	Pressure Range Code
0-15	30	75	00015
0-30	60	150	00030
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
0-15,000	30,000	20,000	15000
0-20,000	40,000	20,000	20000

* 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-1-000

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* W= F250C Female Autoclave***	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± (3 wire case w/ case connection) 4= 4-20mA 2 wire (loop powered w/ case connection) 6= 1-6V± (3 wire case w/ case connection)	X= Special T= 2ft. cable w/ conduit U= 4ft. cable w/ conduit W= 6.5ft. cable w/ conduit	X= Special 0= 17.4 PH 1= 316L* 2= Inconel 718**	XXX= Special 000= No options

*Available up to 10,000 PSI

**Consult factory on availability

***For pressure ranges above 10,000 - 20,000 PSI, specify the F250C Female Autoclave (W) option.

Dimensional Information

