

# LOW RANGE, HIGH LINE DIFFERENTIAL PRESSURE TRANSMITTER

**Models 216, 316**

## FEATURES:

- Wet-wet DP measurement
- Full line pressure overload
- Small size
- Type 316 Stainless Steel All-welded construction
- NEMA-4 rated enclosure
- Attractively priced
- Zero and Span adjustment standard

## PRESSURE RANGES:

- From 0-5 to 0-2000 in. wcd and 0-1 to 0-200psi
- Bi-Directional Output available upon request (See ordering guide)

## LINE PRESSURE:

- 2000 psi standard, others available

## ACCURACY:

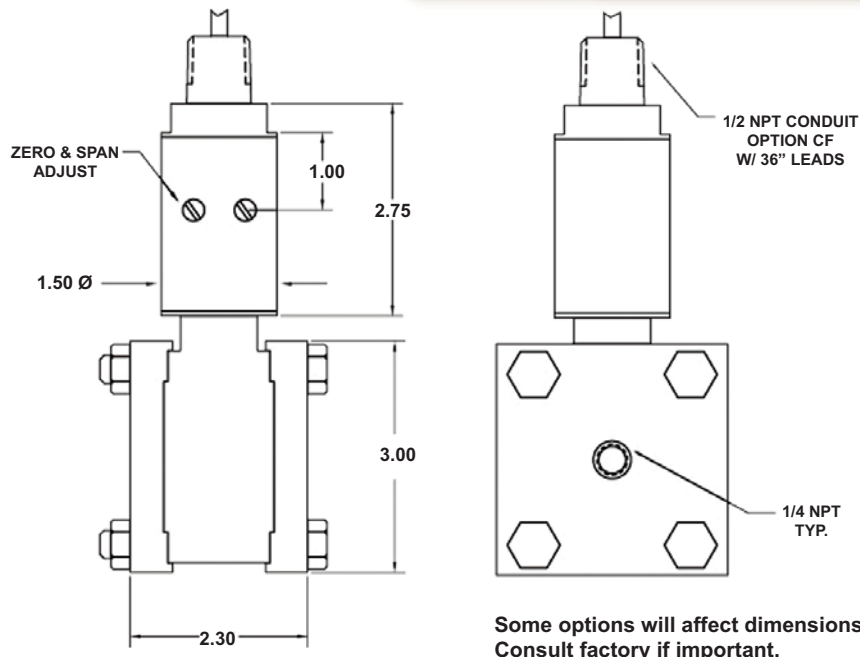
- To  $\pm 0.1\%$  FSO (RSS)



## WIRING CODE

	216	316
A/1 RED	+ EXC.	+ EXC./SIGNAL
B/2 GREEN	+ SIGNAL	NC
C/3 WHITE	NC	NC
D/4 BLACK	- EXC./SIGNAL	- EXC./SIGNAL
E/5 BLUE	NC	NC
F/6 BROWN	NC	NC
SHIELD	OPEN	OPEN

INDUSTRIAL GRADE



Some options will affect dimensions. Consult factory if important.

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

A5SL-16.00



Specifications reflect standard product, improved performance/mechanical options available. Modifications may alter specs, consult factory for more information.

Accuracy (non-linearity, hysteresis, non-repeatability)	Series B:(Std.) ±0.5% FSO (RSS)	Series C: ±0.2% FSO (RSS)	Series D: ±0.1% FSO (RSS)
Base (Line) Pressure	2000 psi, maximum 3000 psi, maximum, options FP & LA 500 psi, maximum, option LB		
Pressure Cavity Material	316 Stainless Steel and Viton O-Ring		
Static Line Shift	Less than ±1% FSO/1000 psi for ranges 0-21" wc and higher Less than ±2% FSO/1000 psi for ranges 0-20" wc and lower		
Orientation Shift Zero	±1 inwc		
Resolution	Infinite (0.02% FSO practical minimum)		
Temperature Limits Compensated Operating Storage	+70°F to +180°F 0°F to +180°F -20°F to +200°F		
Temperature Compensation Zero Span	Less than ±2.0% FSO/100°F Less than ±2.0% FSO/100°F		
Electricals Supply Voltage Output at 70°F Output Loading Load Impedance, Zero Balance Span	(Model 216) 10.2-42 Vdc 0±5 Vdc FSO 3000 ohms, minimum Adjustable to ±20% FSO Adjustable to ±20% FSO	(Model 316) 13-37 Vdc 4-20 mA FSO 1200 ohms maximum at 37 Vdc	
Mechanicals Response Time Frequency Response Stability	<100 milliseconds for 90% FSO/70°F Flat to 10HZ Less than ±0.25% FSO/6 months		
Proof Pressure at 70°F	1000 psi single ended is standard 1000 psi single ended for options FP & LA 500 psi single ended for option LB		
Burst Pressure at 70°F	4000 psi is standard 5000 psi for options FP & LA 750 psi for option LB		
Weight	5.4 lbs., normal (std.) 6.5 lbs., options FP & LA 2.0 lbs., option LB		
Connections Pressure Electrical	1/4" NPT (F) Cable (24 AWG) 36" long		
Enclosure Materials	316 Stainless Steel		

## ORDERING GUIDE:

MODEL	ACCURACY	RANGE	OPTIONS
●	+	●	+/●

Example: 316-C-WX-CA/GH

### MODEL

216	0-5 Vdc
316	4-20 mA
216X	0-5 Vdc Explosion Proof
316X	4-20 mA Explosion Proof

### ACCURACY

B	0.5% FSO
C	0.2% FSO
D	0.1% FSO

### PRESSURE RANGE

		IN. WCD			
WT	5	XD	30	XO	200
WV	7.5	XF	50	XQ	300
WX	10	XH	75	XS	500
WZ	15	XK	100	XU	750
XB	20	XM	150	XW	1000
XY	1500				
YA	2000				
SZ	Non-Stan.				

		PSID	
PC	1	PP	15
PE	2	SZ	Non-Stan.
PG	3	PR	20
PJ	5	PO	25
PL	7.5	PT	30
PN	10	PV	50
PX	75		
PZ	100		
RB	150		
RD	200		

### OPTIONS

AA None (standard connector with 36" pigtail)

### ALTERNATE CONNECTOR OR CABLE

Note:	Explos.-Proof rated models are only provided with 1/2"NPT(M) conduit thread, (Option CF)
CA	Bendix PTIH-10-6P (Mate:PTO6E-10-6S [SR], not supplied)
CB	Bendix MS3102E-14S-6P(Mate: MS3106E-14S-6S, not supplied)
CE	Terminal Block
CF	1/2" NPT(M) with 36" leads
CH	NEMA-4X cable, 8' vented polyurethane cable
CJ	DIN 43650 (includes mate) (Hirschmann type)
CL	1/2" NPT (M) conduit, 2' vented polyurethane jacket cable
CO	Junction Box (thermocouple type) with terminal block
CT	Teflon jacketed cable, Tefzel used on submersible units,(options CH, CL, DE)
CZ	Alternate connector/cable/other

### ALTERNATE PRESSURE PORT

FA	MS33649-4 (1/4" AND-10050) [F]
FC	3/8" NPT (F)
FH	1/8" NPT (F)
LA	3000 psi flanges, (std. pressure port)
LB	All-welded Pressure Port Caps. These units have no O-ring and are limited to 500 psi line pressure
FP	3-valve Manifold Flanges
FZ	Non-Standard Pressure Port

### GENERAL

DE	IP-67 (NEMA-6) vented polyurethane jacket cable, neoprene grommet
GB	Alternate Electronic Output (specify Zero and Span output values)
GE	Improved Temp. Compensation to ±0.5% FSO/100°F for Zero & Span respectively (0-180°F)
GH	Internal Calibration Resistor set to 100 ±0.5% FSO
GL	Cleaned for Oxygen Service
MH	3:1 Max Ranging, (Model 316 only)
MS	Bi-Directional Differential Pressure, (For model 316 zero is set to 12mA)
GS	0-10 Vdc FSO, (Model 216 Requires 16-42 Vdc excitation)
HL	RFI Protection
HZ	Teflon O-ring
LN	1/8" NPT(F) flush port to each flange. Plug included
LO	Air bleed screw, each flange with 10-32 brass tip set screws
CW	Submersible Housing, 8' polyurethane jacket cable, neoprene grommet, and conduit fitting
CZ	Customer Special