



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

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LOW PRESSURE / HIGH PROOF TRANSMITTER

Models 210 / 310 / 210X,P / 310X,P



FEATURES:

- Wet-wet, gauge pressure measurement
- 500 psi pressure overload
- Type 316 stainless all welded construction
- Approved FM/CSA Explosion proof (Factory sealed conduit seal not required)
- Accuracy to $\pm 0.1\%$ FSO

PRESSURE RANGES:

- From 0-5" wc through 0-200 psi

Approvals



WIRING:

	210	310
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 OPTION GH	NC OPTION GH
F/6 BROWN	NC OPTION GH	NC OPTION GH
SHIELD	OPEN	OPEN

Accuracy:

(Includes Hysteresis, Non-linearity, Non-Repeatability)

- Series B: $\pm 0.5\%$ FSO RSS
- Series C: $\pm 0.2\%$ FSO RSS
- Series D: $\pm 0.1\%$ FSO RSS

Resolution:

- Infinite (0.01% practical minimum)

Temperature Limits:

- Compensated: +30°F to +170°F
- Operating: 0°F to +185°F
- Storage: -40°F to +200°F

Temperature Compensation:

- Zero / Span: Less than $\pm 2.0\%$ FSO/100°F for each

Orientation Shift:

- Zero: ± 1 in wc maximum

Electricals:

- Excitation Voltage:
 - (Model 210) 10.2 - 32 Vdc
 - (Model 310) 13 - 37 Vdc
- Output at 70°F:
 - (Model 210) 0-5 Vdc FSO
 - (Model 310) 4-20 mA FSO
- Output Loading: (Model 210) 3000 ohms minimum
- Load Impedance: 1200 ohms maximum at 37 Vdc
- Zero Balance / Span: Approximately $\pm 20\%$ FSO adjustment

Mechanicals:

- Response Time: <100 milliseconds for 90% FSO at 70°F
- Frequency Response: Flat to 10 HZ
- Proof Pressure: 500 psi for all pressure ranges
- Burst Pressure: 2000 psi
- Weight: 28 oz. nominal

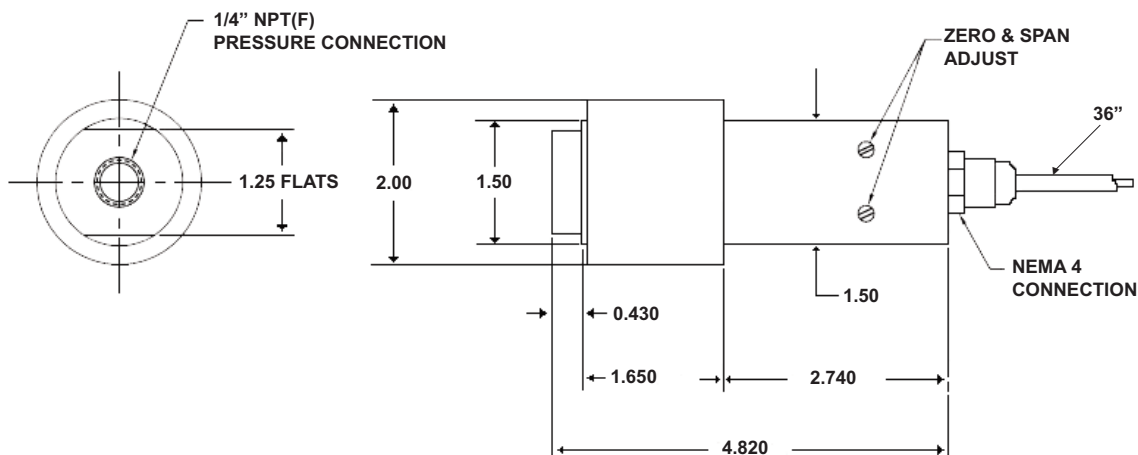
Connections:

- Pressure: 1/4" NPT (F)
- Electrical:
 - (Model 210) 6 conductor, 36" long
 - (Model 310) 4 conductor, 36" long

Wetted Materials:

- 316 SST Pressure Port, Sensor 17-4

Some options will affect dimensions. Consult factory if important.



A5SL-10.00 Rev C

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.



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Typical configurations (consult factory for more options)

MODEL:

210 0-5 Vdc

310 4-20 mA

APPROVAL:

X FM Explosion Proof

P FM/CSA Explosion Proof

ACCURACY:

B 0.5% FSO

C 0.2% FSO

D 0.1% FSO

PRESSURE RANGE:

(IN. WC)

WT 5 **XF** 50 **XS** 500

WV 7.5 **XH** 75 **XU** 750

WX 10 **XK** 100 **XW** 1000

WZ 15 **XM** 150 **XY** 1500

XB 20 **XO** 200 **YA** 2000

XD 30 **XQ** 300 **SZ** Other

(PSI)

PC 1 **PN** 10 **PV** 50

PE 2 **PP** 15 **PX** 75

PG 3 **SZ** Other **PZ** 100

PJ 5 **PR** 20 **RB** 150

PL 7.5 **PT** 30 **RD** 200

PRESSURE TYPE:

2 Gage

4 Vacuum

8 Elevated

9 Other

10 Compound

OPTIONS

AA None (standard connector with a 36" pigtail)

ALTERNATE CONNECTOR OR CABLE

CA Bendix PTIH-10-6P

CB Bendix CF3102E-14S-6P

CE Terminal Block

CF 1/2" NPT (M) conduit connection with 36" leads

CH NEMA-4X cable, 8' vented polyurethane jacket

CL 1/2" NPT (M) conduit, 2' vented polyurethane jacketed cable

CT Teflon jacketed cable, Tefzel used on submersible units (options CH, CL, CW, DE, GM)

CZ Other

ALTERNATE PRESSURE PORT

FA MS33649-4

FC 3/8" NPT (F)

FH 1/8" NPT (F)

FJ 1/4" NPT (M)

FZ Other

GENERAL

DE IP-67 (NEMA-6) vented polyurethane cable, neoprene grommet

CW Submersible housing, 8' non-vented polyurethane jacket cable, neoprene grommet, and 1/2" NPT (M) conduit

GE Improved temp. comp. $\pm 0.5\%$ FSO/100°F zero and span respectively

GH Internal calibration resistor 100 $\pm 0.5\%$ FSO unless otherwise specified

GL Cleaning for oxygen service

GM Submersible housing, 8' polyurethane jacket cable, neoprene grommet, and conduit fitting. (Zero/span not available)

GS 0-10 Vdc FSO. (Model 210 Requires 16-42 Vdc excitation)

HL RFI protection

GZ Customer special

NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.