ULTRA HIGH PRESSURE TRANSMITTER

Models 112, 212, 312

FEATURES:

- Rugged, all-welded, encapsulated electronics
- Leakproof, integral pressure cavity & sensor
- Many standard easy-to-order options

PRESSURE RANGES:

- From 0-20,000 psi to 0-150,000 psi
- From 0-1500 bar to 0-10,000 bar

ACCURACY:

- Accuracies to 0.2% FSO (RSS)
  (Non-linearity, Hysteresis, Non-repeatability)

WIRING:	112	212	312
A/1 RED	+EXC.	+EXC.	+EXC./SIGNAL
B/2 GREEN	+SIGNAL	+SIGNAL	NC
C/3 WHITE	-SIGNAL	NC	NC
D/4 BLACK	-EXC.	-EXC./SIGNAL	-EXC./SIGNAL
E/5 BLUE	NC OPTION GH	NC OPTION GH	NC OPTION GH
F/6 BROWN	NC OPTION GH	NC OPTION GH	NC OPTION GH
SHIELD	OPEN	OPEN	OPEN

Some options will affect dimensions. Consult factory if important.

Accuracy:

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

- Series B (Std): ±0.5% FSO RSS
- Series C: ±0.2% FSO RSS

Zero Balance & FSO:

- ±1.0% FSO at 70°F for each

Long Term Stability:

- <±0.25% FSO for 6 months at 70°F

Resolution:

- Infinite (.02% practical minimum)

Temperature Limits:

- Compensated: 0º F to +180º F
- Operating: -20º F to +190º F
- Storage: -65º F to +250º F
- Effect on Zero & Span: Within ±2% FSO/100°F for each.

Electricals:

- Excitation Voltage:
  (Model 112) 3.5-15 Vdc
  (Model 212) 9-40 Vdc
  (Model 312) 9-40 Vdc
- Output at 70º F (FSO):
  (Model 112) 3.0 mV/V ±2%
  (Model 212) 5.0 Vdc ±2%
  (Model 312) 4-20 mA ±2%
- Input Current: **(Model 212)** 8 mA, nominal
- Load Impedance:
  (Model 112) 50,000 ohms min. for less than 0.1% FSO attenuation
  (Model 312) 1350 ohms max. at 36 Vdc & 750 ohms at 24 Vdc
- Output Current: **(Model 212)** 2.0 mA max. for less than 0.1% FSO attenuation
- Range Calibration Signal: Resistance value provided on calibration card for 100% FSO
- Insulation Resistance: Greater than 10 megohms at 50 Vdc and 70°F
- Cable: 24 AWG - 36" long

Mechanicals:

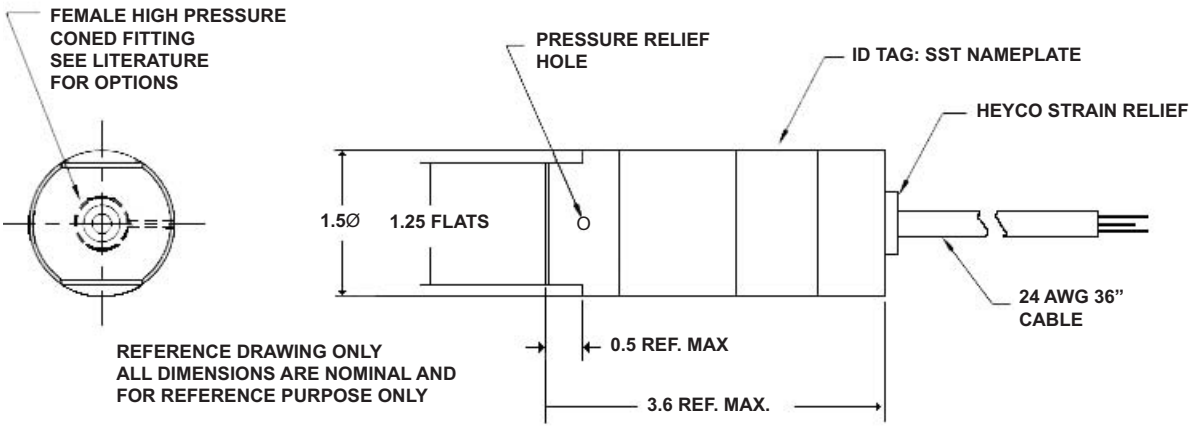
- Proof Pressure: 1.2 X full scale pressure or 160,000 psi, whichever is less.
- Burst Pressure: 2 X full scale pressure or 180,000 psi, whichever is less.
- Case material: Types 15-5 PH & 316 SST
- Weight: 12 oz., nominal

Connections:

- Pressure Ranges: 20,000 to 60,000 psi - autoclave type F-250-C
  75,000 to 150,000 psi - autoclave type F312-C150

Wetted Materials:

- 0-20,000 to 60,000 psi - 17-4 stainless steel
- 0-61,000 to 0-150,000 psi - Vascomax 300



A5SL-12.00 Rev B

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Typical configurations (consult factory for more options)

MODEL:

112	3 mV/V
212	0-5 Vdc
312	4-20 mA
312Z	4-20 mA (Intrinsically Safe)

ACCURACY:

B	0.5% FSO
C	0.2% FSO

PRESSURE RANGE:

(PSI)		(BAR)	
SD	20,000	**UB**	1500
SE	25,000	**UC**	2000
SF	30,000	**UD**	3000
SH	50,000	**UE**	5000
SI	60,000	**UG**	10,000
SK	75,000		
SM	100,000		
SO	150,000		
SZ	Non-std.		

PRESSURE PORT:

FM	F-250-C std. on 20k-60k psi Autoclave Engineering type.
IC	F-375-C, 3/4-16 (F) thread Autoclave Engineering type.
ID	F-312-C150, 5/8-18 (F) thread Autoclave Engineering type std. on ranges above 75k.
FZ	Non-standard port

OPTIONS

AA	None (standard connector)

ALTERNATE CONNECTOR OR CABLE

CA	Bendix PTIH-10-6P (Mate PT06E-10-6S [SR], not supplied)
CB	Bendix CF3102E-14S-6P (Mate CF3106E-14S-6S, not supplied)
CC	Bendix PCO2E-12-8P (Mate:PCO6A-12-8S-[SR] not supplied)
CD	Cannon WK6-32S (Mate WK6-21C not supplied)
CE	Terminal Block
CF	1/2" NPT Male Thread with 24" potted leads
CG	MS3102A-14S-6S (mate: MS3106F-14S-6P not supplied)
CJ	DIN 43650 (includes mate)
CO	Junction Box (thermocouple type) and terminal block
CZ	Alternate Connector/Cable/Other

ALTERNATE PRESSURE PORT

IC	F-375-C, 3/4-16(F) thread autoclave engineering type
ID	F-312-C150, 5/8-18(F) thread autoclave engineering type
FZ	Non-standard port

GENERAL

GA	Standardized FSO = (Full scale reading) - (Zero reading) ±0.5% FSO
GB	Alternate Electronic Output (Specify Zero and Span output Values)
GE	ImprovedTtemperature. Compensation to ±0.5% FSO/100ºF for Zero & Span respectively, from 0ºF to 180ºF.
GF	Expanded process temperature range, -65 to 250ºF (±2.0% FSO/100ºF)
GG	Alternate shunt calibration signal (specify percentage FSO)
GH	Internal shunt calibration resistor, set to 100% ±0.5% FSO
GJ	Add Zero and Span Controls. (Approximately ±20% FSO adjustment)
GS	0-10 Vdc FSO, Model 212 only (Requires 14.5-32 Vdc excitation)
HE	±0.5% FSO zero balance
HL	RFI Protection (for unit in proximity to radio transmitter)
HR	±15 Vdc Excitation, Model 212
GZ	Customer special

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

Modifications may alter specs, consult factory for more information.

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