

Models 115, 215, 315



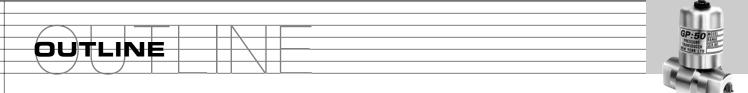
FEATURES:

- Rugged, all-welded, totally encapsulated electronics
- Leakproof. No O-ring construction
- Small size
- All stainless steel wetted parts
- Many easy-to-order options
- Base pressure to 10,000 psi (with option HM)

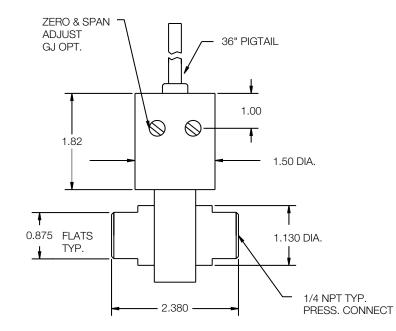
PRESSURE RANGES:

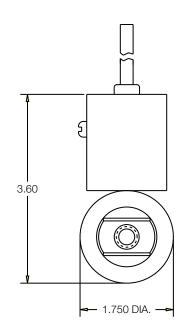
- From 30 to 5000 psid
- From 2 to 300 bar
- (Bi-directional available, see ordering guide.)

MODEL	OUTPUT @ 70°F	EXITATION	
115	3 mV/V ±2% FSO	3.5-15 Vdc	
215	0 ±5 Vdc ±2% FSO	9-40 Vdc	
315	4-20 mA ±2% FSO	9-36 Vdc	
APPROVED	Explosion-Proof Class I, II, III Division I, II Groups A, B, C, D, E, F, & G	*	
215X	0- ±5 Vdc ±2% FSO	10.5-32 Vdc	
315X	4-20 mA ±2% FSO	13-36 Vdc	
CSA INTERNATIONAL	Class I, II, III, Division I, II Groups A, B, C, D, E, F, G & T4		
315Z	4-20 mA ±2% FSO 9-36 Vdc		



Some options will affect dimensions. Consult factory if important.







		115	215	315
A/1	Red	+ Excit.	+ Excit.	+ Excit./Signal
B/2	Green	+ Signal	+ Signal	NC
C/3	White	- Signal	NC	NC
D/4	Black	- Excit.	- Excit./Signal	- Excit./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 connector options will affect wiring.



Unless otherwise stated, these specifications are the standards to which the units are normally constructed. Alterations may be easily and readily accomplished by the standard modification code or by discussion with the factory. We invite your inquiry.

Base (Line) Pressure*	2000 psi maximum (10,000 psi option)
Wetted Materials *	316 Stainless Steel
Zero Shift With Base Pressure	$\leq \pm 1\%$ FSO/1000 psib
Resolution	Infinite (practical minimum of 0.02% on 115, 215 and 0.06% on 315)
Temperature Limits* Compensated Operating Storage	+70 to + 180°F -20 to + 190°F -65 to +250°F
Temperature Compensation* Zero Span	≤ ±2% FSO/100°F ≤ ±2% FSO/100°F
Electricals Zero Balance* Model 115 Model 215 Model 315 Input Impedance Model 115 Input Current Model 215 Load Impedance Model 115 Output Current Model 315 Output Current Model 215 Insulation Resistance	 0.0 mV/V ±5% FSO at 70°F @ 10 Vdc 0.0 Vdc ±5% FSO at 70°F @ 24 Vdc 4.0 mA ±5% FSO at 70°F @ 24 Vdc 5000 ohm nominal 10 mA nominal 50,000 ohms minimum for less than 0.1% FSO attenuation. 750 ohms maximum at 24 Vdc and 1350 ohms maximum at 36 Vdc. 2.0 mA maximum for less than 0.1% FSO attenuation. Greater than 10 megohms at 50 Vdc and 70°F
Mechanicals Proof Pressure* Burst Pressure Weight Connections Pressure* Electrical* Cable Model 115, 215 Model 315	10 times full scale pressure range or 3000 psi, whichever is less 15 times full scale pressure range or 4000 psi, whichever is less. 16 oz. nominal. 1/4" NPT (F) 36" long, 4 conductor 36" long, 2 conductor
Enclosure Material	15-5 and 316 Stainless Steel
Mounting	Pressure Port

* See modifications on ordering guide.

Ordering: Specify model, and pressure range and indicate modifications or accessories required.

Consult factory for Intrinsically Safe approved options.

MODEL

115	3 mV/V	
	•	
215	0-5 Vdc	
315	4-20 mA	
215X	0-5 Vdc	Explosion Proof
315X	4-20 mA	Explosion Proof
315Z	4-20 mA	Intrinsically Safe

SERIES (Accuracy)

- A 1.0% FSO B 0.5% FSO
- C 0.2% FSO

	psi	b	ar
PT	30	UL	2
PV	50	UM	3
PX	75	UN	5
ΡZ	100	UP	7.5
RB	150	UQ	10
RD	200	UR	15
RE	250	US	20
RF	300	UT	30
RH	500	UV	50
RJ	600	UX	75
RK	750	UY	100
RM	1000	UZ	150*
RO	1500	VA	200*
RR	2000	VB	300*
RS	2500		
RT	3000*		
RV	5000*		
RX	7500*		
SZ	Other		

*Available with option HM only

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

MODEL	SERIES	RANGE	OPTIONS
• -	- • -	- • -	- •/•/•

Example: 215-B-PV-CA/GJ

OPTIONS

AA - None (standard connector)

ALTERNATE CONNECTOR OR CABLE

- Note: Explosion-proof rated models are only available with 1/2" NPT (M) Conduit Thread (Option CF)
- CA Bendix PTIH-10-6P (Mate: PT06E-10-6S [SR] (not supplied) CB Bendix CF3102E-14S-6P (Mate: CF 3106E-14S-6S (not
- supplied))
- CE Terminal Block
- CF 1/2" NPT (M) thread with 24" potted leads
- CH NEMA-4X cable, 8' polyurethane jacket cable (only available on ranges up to and including 299 PSI)
- CJ DIN 43650 (includes mate)
- CL 1/2" NPT (M) conduit, 2' vented polyurethane jacket cable (only available on ranges up to and including 299 PSI)
- CO Junction Box (thermocouple type) and Terminal Block
- CT Teflon jacketed cable, Tefzel used on submersible units (options CH, CL, DE)

ALTERNATE PRESSURE PORT

- FA MS33649-4 [1/4 AN-10050, (F)]
- FC 3/8" NPT (F)
- FZ Non-Standard Pressure Port

GENERAL

- CW Submersible non-vented sub cable (max. 500 psi external).
- DE IP-67 (NEMA-6) vented polyurethane cable, neoprene grommet
- GA Standardized Output to ±0.5% FSO
- GB Alternate Full Scale, Outputs that are non-standard
- GE Improved Temperature Compensation to ±0.5% FSO/ 100°F for Zero and Span respectively
- GF Expanded Temperature Range, -20 to +200°F (Compensated to ±2% FSO/100°F)
- GG Alternate Calibration Resistor Signal
- GH Internal Calibration Resistor, set to 100% ±0.5% FSO
- GJ Zero and Span Controls (Approximately ±20% FSO) Models 215 and 315 only
- GK Inconel Pressure Cavity
- GL Cleaned for Oxygen Service
- GS 0-10 Vdc FSO, Model 215. (Requires 16-40 Vdc excitation)
- HK NEMA-4X rating
- HL RFI Protection (for unit in proximity to radio transmitter).
- HM 10,000 psi Base Pressure Flange Girdle. (Proof pressure 10 times full scale range or 10,000 psi, whichever is less. Burst pressure 15 times full scale range or 10,500 psi, whichever is less.)
- HR ±15 Vdc Excitation, Model 215
- MD Zero and Span Controls for Explosion-Proof Units.MS Bi-Directional Differential Pressure allows for both Positive and Negative signal
- (Model 315 has a 12 mA zero)
- GZ Customer special