



HIGH RANGE DIFFERENTIAL PRESSURE TRANSMITTER

MODEL 115 / 215 / 315



Model 115 / 215 / 315
High Range Differential
Pressure Transmitter



FEATURES:

- Ranges from 30 PSID (2 BAR D) to 7,500 PSID (317 BAR D)
- Line pressure to 10K PSI (690 BAR)
- Rugged, all welded, 316L construction
- No seals or o-rings
- Compact size
- Bi-directional operation
- Optional FM & CSA Explosion-proof approval
- Optional FM, CSA or ATEX Intrinsically safe approval

APPLICATIONS:

- Pump and compressor skids
- Hydraulic test stands
- Drilling Rig top drive controls

PRODUCT OVERVIEW:

The Model 115/215/315 from GP:50 is a family of compact, high-range differential pressure transducers. Series units are offered in ranges as low as 0 to 30 PSID (0 to 2 BAR D), with a line pressure range to 10K PSI (690 BAR). Their all-welded, corrosion-resistant, 316L stainless steel construction is without seals or o-rings, helping to ensure their continued reliability within demanding environments. Optional FM, CSA, ATEX intrinsic safety approvals are also available.

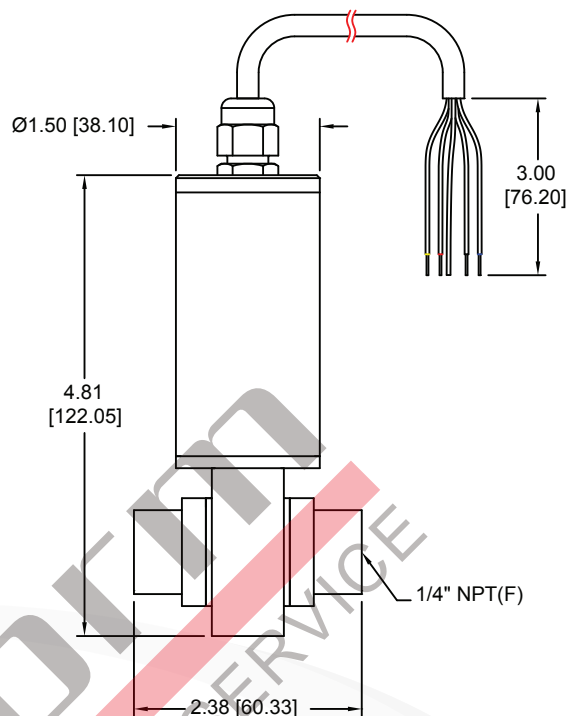
FIELD OPTIONS:

- mV/V, Vdc and 4-20 mA output
- Zero & span adjustments
- Alternate process and electrical connections
- Bi-directional operation
- Line pressure to 10K PSI (690 BAR)

GP:50 MODEL 115 / 215 / 315

DIMENSIONAL DRAWING

All dimensions are in inches (mm)



STANDARD WIRING

WIRE	MODEL 115	MODEL 215	MODEL 315
1/RED	+EXC	+EXC	+EXC/SIG
2/GRN	+SIG	+SIG	N/C
3/WHT	-SIG	N/C	N/C
4/BLK	-EXC	-EXC/SIG	-EXC/SIG
5/BLU	+SHUNT (OPT)	+SHUNT (OPT)	+SHUNT (OPT)
6/BRN	-SHUNT (OPT)	-SHUNT (OPT)	-SHUNT (OPT)
SHIELD	OPEN	OPEN	OPEN

REFERENCE SPECIFICATIONS

ELECTRICAL	STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
<ul style="list-style-type: none"> Supply Voltage: (Model 115) 3.5 to 15 Vdc excitation (Model 215) 9.0 to 40 Vdc excitation 0 to 10 Vdc output requires 13 to 40 Vdc excitation (Model 315/315Z) 9.0 to 36 Vdc excitation Zero Balance and FSO: $\pm 2\%$ FSO at +70 °F Output Signal: (Model 115) 3 mV/V (Model 215) 0 to 5 Vdc (alternate outputs available) (Model 315) 4-20 mA Input Impedance: (Model 115) 5K Ω nominal Load Impedance: (Model 115) 50K Ω min. for <0.1% FSO attenuation (Model 215) 750 Ω max. at 24 Vdc and 1,350 Ω at 36 Vdc Circuit Protection: RFI and EMI Connection: 36" long PVC jacketed, 24 AWG, 4 conductor cable with shield 	Standard: $\pm 1.0\%$ FSO Improved: $\pm 0.5\%$ FSO or $\pm 0.2\%$ FSO
MATERIALS OF CONSTRUCTION	MECHANICAL
<ul style="list-style-type: none"> Wetted Parts: 316 stainless steel (options available consult factory) Housing: 316 stainless steel 	<ul style="list-style-type: none"> Process Connection: 1/4" NPT (F) Static Line Pressure: 2000 PSI (10,000 PSI optional with flange girdle) Zero shift with line pressure: $< \pm 1.0\%$ FSO/1K PSID Proof Pressure: 10X FSO or 3K PSI (207 BAR) whichever is less, 10K PSI (690 BAR) optional Burst Pressure: 15X FSO or 4K PSI (276 BAR) whichever is less, 10.5K PSI (724 BAR) optional Approximate Weight: <1.5 lbs (0.7 kg) (some options may affect weight)
	PRESSURE RANGES
	<ul style="list-style-type: none"> 30 PSID (2 BAR D) to 7,500 PSID (317 BAR D)
	THERMAL SPECIFICATIONS
	<ul style="list-style-type: none"> Compensated: +70 °F to +180 °F (+21 °C to +82 °C) Operating: -20 °F to +190 °F (-29 °C to +88 °C) Storage: -65 °F to +250 °F (-53 °C to +121 °C) Effect on Zero/Span: $\pm 2.0\%$ FSO/100 °F

**Standard configurations shown.
Please consult factory for other options.**

All specifications are for reference purposes only. In the interests of continuous product improvement, all specifications are subject to change without notice. Please contact GP:50 for assistance with your application.