

DM-SENSORS

Druck • Feuchte • Weg • Kraft • Messtaster Drehmoment • Temperatur

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, highrange 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)





Model 115 / 215 / 315 High Range Differential Pressure Transmitter

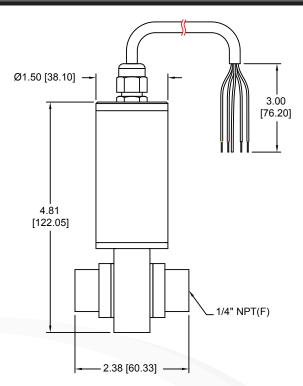


GP:50 MODEL 115 / 215 / 315

DIMENSIONAL DRAWING

All dimensions are in inches (mm)

| 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 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) | STANDARD WIRING | | | | |
|--|-----------------|--------------|--------------|--------------|--|
| 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) | WIRE | | | | |
| 3/WHT -SIG N/C N/C 4/BLK -EXC -EXC/SIG -EXC/SIG 5/BLU +SHUNT (OPT) +SHUNT (OPT) +SHUNT (OPT) | 1/RED | +EXC | +EXC | +EXC/SIG | |
| 4/BLK -EXC -EXC/SIG -EXC/SIG 5/BLU +SHUNT (OPT) +SHUNT (OPT) +SHUNT (OPT) | 2/GRN | +SIG | +SIG | N/C | |
| 5/BLU +SHUNT (OPT)+SHUNT (OPT)+SHUNT (OPT) | 3/WHT | -SIG | N/C | N/C | |
| | 4/BLK | -EXC | -EXC/SIG | -EXC/SIG | |
| 6/BRN -SHUNT (OPT) -SHUNT (OPT) -SHUNT (OPT) | 5/BLU | +SHUNT (OPT) | +SHUNT (OPT) | +SHUNT (OPT) | |
| | 6/BRN | -SHUNT (OPT) | -SHUNT (OPT) | -SHUNT (OPT) | |
| SHIELD OPEN OPEN OPEN | SHIELD | OPEN | OPEN | OPEN | |



REFERENCE SPECIFICATIONS

| ELECTRICAL | STATIC ACCURACY (BFSL) (Hysteresis, non-linearity & repeatability @ +70 °F) | |
|--|---|--|
| Supply Voltage: | Standard: ±1.0% FSO | |
| (Model 115) 3.5 to 15 Vdc excitation | Improved: ±0.5% FSO or ±0.2% FSO | |
| (Model 215) 9.0 to 40 Vdc excitation | MECHANICAL | |
| 0 to 10 Vdc output requires 13 to 40 Vdc excitation | • Process Connection: 1/4" NPT (F) | |
| (Model 315/315Z) 9.0 to 36 Vdc excitation | • Static Line Pressure: 2000 PSI (10,000 PSI optional with flange girdle) | |
| Zero Balance and FSO: ±2% FSO at +70 °F | | |
| Output Signal: | • Zero shift with line pressure: <±1.0% FSO/1K PSID | |
| (Model 115) 3 mV/V | • Proof Pressure : 10X FSO or 3K PSI (207 BAR) whichever is less, 10K PSI (690 BAR) optional | |
| (Model 215) 0 to 5 Vdc (alternate outputs available) | | |
| (Model 315) 4-20 mA | • Burst Pressure: 15X FSO or 4K PSI (276 BAR) whichever is less, 10.5K PSI (724 BAR) optional | |
| Input Impedance: (Model 115) 5K Ω nominal | • Approximate Weight: <1.5 lbs (0.7 kg) (some options may affect weight) | |
| Load Impedance: | | |
| (Model 115) 50K Ω min. for <0.1% FSO attenuation | PRESSURE RANGES | |
| (Model 215) 750 Ω max. at 24 Vdc and 1,350 Ω at 36 Vdc | • 30 PSID (2 BAR D) to 7,500 PSID (317 BAR D) | |
| Circuit Protection: RFI and EMI | | |
| Connection: 36" long PVC jacketed, 24 AWG, 4 conductor cable with shield | THERMAL SPECIFICATIONS | |
| | • Compensated: +70 °F to +180 °F (+21 °C to +82 °C) | |
| MATERIALS OF CONSTRUCTION | • Operating: -20 °F to +190 °F (-29 °C to +88 °C) | |
| •Wetted Parts: | Storage: -65 °F to +250 °F (-53 °C to +121 °C) Effect on Zero/Span: ±2.0% FSO/100 °F | |
| 316 stainless steel (options available consult factory) | | |
| Housing: 316 stainless steel | | |

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.

GP:50 Celebrating 30 Years!

DM-SENSORS Schulstr. 26c 65835 Liederbach