



## INDUSTRIAL GRADE PRESSURE TRANSDUCER

### MODEL 111 / 211 / 311

#### FEATURES:

- Available ranges from 0 to 30" WC thru 0 to 15K PSI (75 MBAR to 1,034 BAR)
- Choice of mV/V, Vdc & 4-20 mA output
- Rugged, welded, stainless steel construction
- High proof pressure
- Economically priced

#### APPLICATIONS:

- Hydraulic & pneumatic controls
- Die casting
- Rolling & steel mills
- Compression skids
- Irrigation pumps pressure
- Oilfield truck pressures
- Skidded process systems

#### PRODUCT OVERVIEW:

The Model 111/211/311 from GP:50 is a family of industrial grade pressure transducers. These strain gauge-based sensors are expressly designed to withstand the shock, vibration and pressure spikes common to most hydraulic and pneumatic control systems.

The highly rugged, all-welded stainless steel design of the Model 111/211/311 offers high corrosion resistance, making the sensors an ideal choice for demanding oil & gas, steelworks, rolling mills and process control applications. Units are further available with optional 10X proof pressure for extended worry-free service life within challenging environments.

#### FIELD OPTIONS:

- Zero and span adjustments
- 80% and 100% shunt calibration
- Alternate connectors and pressure ports
- For Intrinsically Safe and Explosion Proof approvals, see specially designated datasheet for Model 111/211/311 hazardous location



Model 111 / 211 / 311  
Industrial Grade Pressure Transducer

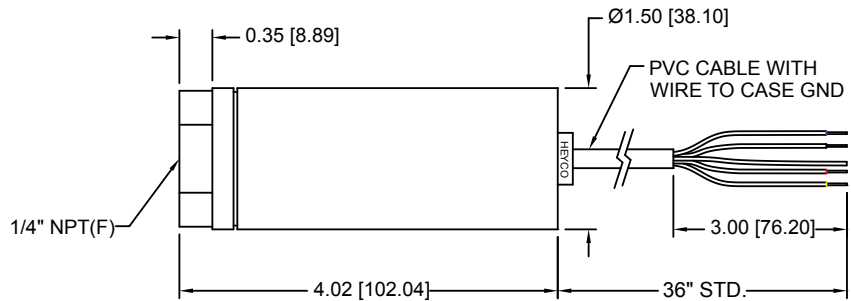
# GP:50 MODEL 111 / 211 / 311

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

WIRE	MODEL 111	MODEL 211	MODEL 311
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)



## REFERENCE SPECIFICATIONS

ELECTRICAL
<ul style="list-style-type: none"> <li><b>Excitation Voltage:</b> (Model 111) 3.5 to 15 Vdc (Model 211) 9.0 to 36 Vdc (Optional outputs may affect excitation) (Model 311) 9.0 to 36 Vdc</li> </ul>
<ul style="list-style-type: none"> <li><b>Output Signal:</b> (Model 111)  <ul style="list-style-type: none"> <li>≤ 1 PSI: to 3.0 mV/V</li> <li>2 PSI: 8.0 mV/V</li> <li>3 PSI - 2,000 PSI: 7-10 mV/V</li> <li>2,500 - 15,000 PSI: 2 to 3 mV/V</li> <li>&gt; 15K: 2 to 2.5 mV/V</li> </ul> </li> <li>(Model 211) 0 to 5 Vdc, 0 to 10 Vdc (other outputs available)</li> <li>(Model 311) 4-20 mA</li> </ul>
<ul style="list-style-type: none"> <li><b>Input Impedance:</b> (Model 111) 4K to 6K Ω</li> <li><b>Input Current:</b> (Model 211) 8 mA nominal</li> <li><b>Circuit Protection:</b> (Model 211/311) RFI &amp; EMI (Model 211/311) Reverse polarity protected</li> <li><b>Response Time:</b> &lt;3 ms 10% to 90%</li> <li><b>Connection:</b> 36" long PVC Jacketed cable, 4-conductor</li> </ul>

MATERIALS OF CONSTRUCTION
<ul style="list-style-type: none"> <li><b>Wetted Parts:</b>  <ul style="list-style-type: none"> <li>≤ 2000 PSI 316LSST w/silicon oil fill (Fomblin oil available, consult factory)</li> <li>&gt; 2000 PSI: 17-4 PH SST (Inconel available, consult factory)</li> </ul> </li> <li><b>Housing:</b> 300 series stainless steel</li> </ul>
<b>STATIC ACCURACY (BFSL)</b> (HYSTERESIS, NON-LINEARITY & REPEATABILITY @ +70 °F)
Standard: ±0.5% FSO Improved: ±0.2% FSO or ±0.1% FSO <ul style="list-style-type: none"> <li><b>Zero Balance and FSO:</b> ±1% FSO at +70 °F (+21.1 °C) for each</li> </ul>
<b>MECHANICAL</b>
<ul style="list-style-type: none"> <li><b>Process Connection:</b> 1/4" NPT (F)</li> <li><b>Proof Pressure:</b> 2X FSO or 22.5K PSI (1,551 BAR), whichever is less</li> <li><b>Burst Pressure:</b> 5X FSO or 23K PSI (1,586 BAR), whichever is less, Vacuum 5X FSO in gauge pressure</li> <li><b>Approximate weight:</b> 10 oz. (0.3 kg) nominal (options may increase weight)</li> </ul>
<b>PRESSURE RANGES</b>
<ul style="list-style-type: none"> <li>0 to 30" WC thru 0 to 15K PSI (0 to 1,034 BAR) PSIG, PSIS, PSIA, PSIV &amp; compound ranges available.</li> </ul>
<b>THERMAL SPECIFICATIONS</b>
<ul style="list-style-type: none"> <li><b>Compensated:</b> 0 °F to +180 °F (-17.7 °C to +82 °C)</li> <li><b>Operating:</b> -20 °F to +190 °F (-29 °C to +88 °C)</li> <li><b>Storage:</b> -65 °F to +250 °F (-53 °C to +121 °C)</li> <li><b>Effect on Zero/Span:</b> ±1.0% FSO/100 °F</li> </ul>

**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

