



## DOWNHOLE PRESSURE TRANSDUCER

### MODEL 120

#### FEATURES:

- Rated to +400 °F (+204 °C) and 30K PSI (2,068 BAR)
- Compact design, 3/4" diameter
- Welded, hermetic construction
- Optional pressure and temperature outputs
- Optional 2 to 3 mV/V output



Model 120  
Downhole Pressure Transducer

#### APPLICATIONS:

- Oil & gas exploration and production
- MWD, PWD & LWD tools
- Geothermal
- Wellhead monitoring
- Coil tubing

#### PRODUCT OVERVIEW:

The Model 120 from GP:50 is a high-pressure, high-temperature pressure sensor for oil & gas downhole tool applications. Its highly compact and corrosion-resistant design allows for ease of installation within challenging exploration environments, particularly where space is at a premium. The sensor is designed to withstand high shock and vibration inputs, with further inclusion of an optional temperature output for expanded measurement capabilities.

#### FIELD OPTIONS:

- Temperature output
- Optional electrical connections
- Alternate wetted materials



U.K. Distributor: Interface Force Measurements Ltd

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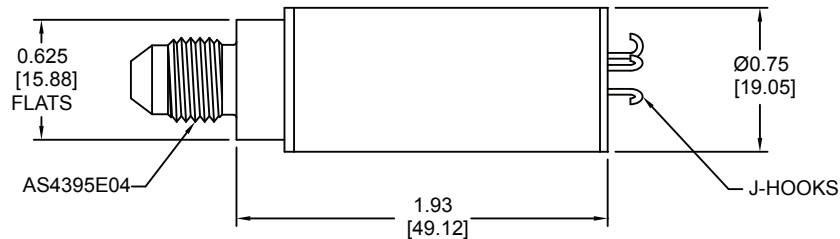
# GP:50 MODEL 120

## DIMENSIONAL DRAWING

All dimensions are in inches (mm)

### STANDARD WIRING

PIN	MODEL 120
1	+EXC
2	+SIG
3	-SIG
4	-EXC
5	N/C



## REFERENCE SPECIFICATIONS

<b>ELECTRICAL</b> <ul style="list-style-type: none"> <li>Excitation Voltage: 5.0 to 15 Vdc</li> <li>Output Signal: 2 to 3 mV/V (Range and accuracy dependent)</li> <li>Load Impedance: 50K <math>\Omega</math></li> <li>Bridge Resistance: 5000 <math>\Omega</math> standard, 350 <math>\Omega</math> Optional</li> <li>Connection: Solder connection via J-Hooks</li> </ul>	<b>MECHANICAL</b> <ul style="list-style-type: none"> <li>Process connection: AS4395E04</li> <li>Proof Pressure: 1.5X range</li> <li>Burst Pressure: 3.0X range on ranges less than 25K PSI (1,724 BAR)</li> </ul>
<b>MATERIALS OF CONSTRUCTION</b> <ul style="list-style-type: none"> <li>Wetted Parts: Inconel 718 (alternate materials available)</li> <li>Housing: 316 stainless steel</li> </ul>	<b>PRESSURE RANGES</b> <ul style="list-style-type: none"> <li>0 to 5K PSI thru 0 to 30K PSI (345 thru 2,068 BAR)</li> </ul>
<b>STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY &amp; REPEATABILITY @ +70 °F)</b> ±0.5% FSO ±0.25% FSO available	<b>THERMAL SPECIFICATION</b> <ul style="list-style-type: none"> <li>Compensated: -70 °F to +350 °F (-57 °C to +176 °C)</li> <li>Operating: -40 °F to +375 °F (-40 °C to +191 °C) Intermittent to +400 °F (+204 °C)</li> <li>Effect on zero/span: ±2% FSO/100 °F, Improved performance options available</li> </ul>

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.

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