

## SMART DIFFERENTIAL PRESSURE TRANSMITTER

### MODEL BRGPIDP



Model BRGPIDP  
Smart Differential Pressure Transducer



#### FEATURES:

- High accuracy up to  $\pm 0.075\%$  FSO
- Static line and single sided overpressure protection up to 3,625 PSI (250 BAR)
- 4-20 mA output, available with or without HART®
- 30:1 turndown
- Optional LCD display with push button adjustment
- Differential pressure ranges from 0 to 0.5" WC thru 0-3K PSID (207 BAR)

#### APPLICATIONS:

- Chemical processing
- Sanitary tank level
- Pulp and paper
- Marine
- Food and beverage

#### PRODUCT OVERVIEW:

The Model BRGPIDP from Blue Ribbon Corporation is a rugged, low range / high line process differential pressure transmitter that provides precise measurement in a 4-20 mA output with optional HART communication. Ranges as low as 0.5" WCD are available with 3,625 PSI of line and single-sided proof pressure. Internal push button adjustments for rangeability and configuration are available, as well as integrated LCD display.

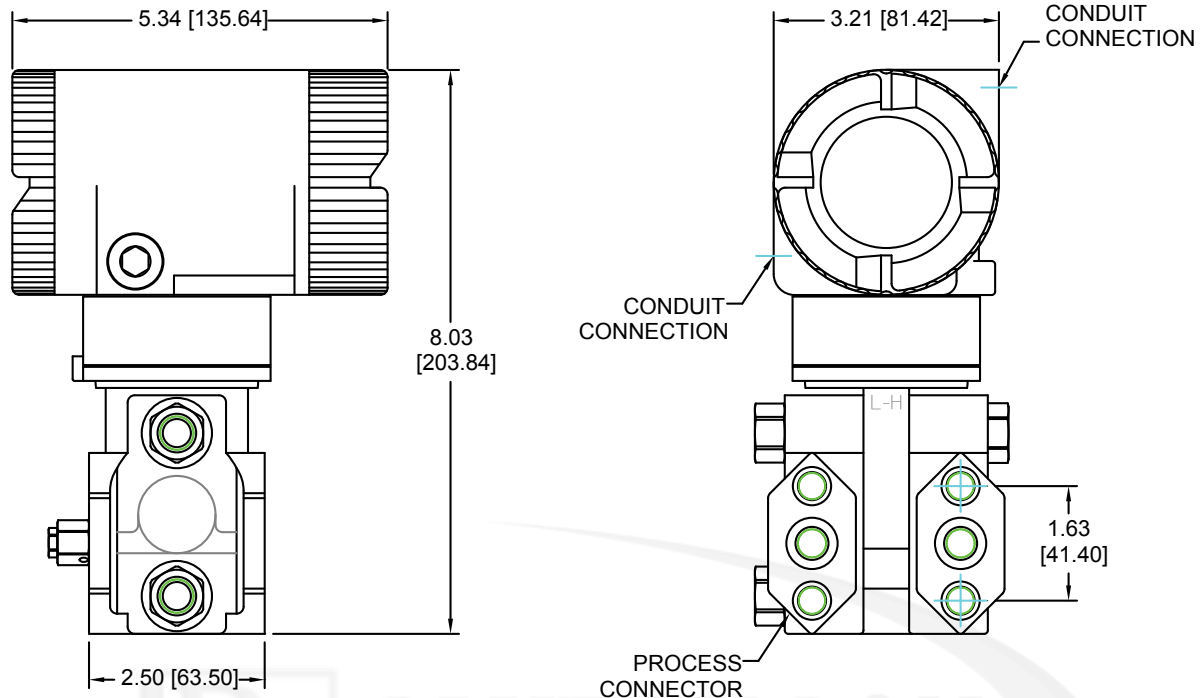
#### FIELD OPTIONS:

- Push button adjust with LCD display
- Exotic wetted parts
- 1 to 5 Vdc low power

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## DIMENSIONAL DRAWING

All dimensions are in inches (mm)



## REFERENCE SPECIFICATIONS

<p><b>ELECTRICAL</b></p> <ul style="list-style-type: none"> <li>• <b>Supply Voltage:</b> 11.5 to 40 Vdc (Optional low power: 7 to 36 Vdc)</li> <li>• <b>Output Signal:</b> 4-20 mA, 4-20mA with HART, 1 to 5 Vdc</li> <li>• <b>Response Time:</b> &lt;750 milliseconds</li> <li>• <b>Connection:</b> ½" NPT (F) on aluminum alloy, epoxy coated housing with internal terminal block</li> </ul>	<p><b>MECHANICAL</b></p> <ul style="list-style-type: none"> <li>• <b>Process Connection:</b> ¼" NPT (F) with optional ½" NPT (F)</li> <li>• <b>Line Pressure Rating:</b> 3,625 PSI (250 BAR)</li> <li>• <b>Proof Pressure Rating:</b> 3,625 PSI (250 BAR)</li> <li>• <b>Approximate Weight:</b> 8.5 lb (3.9 kg)</li> </ul>
<p><b>MATERIALS OF CONSTRUCTION</b></p> <ul style="list-style-type: none"> <li>• <b>Wetted Parts:</b> 316 stainless steel (Optional exotic materials)</li> <li>• <b>Housing:</b> Epoxy coated aluminum alloy</li> </ul>	<p><b>PRESSURE RANGES</b></p> <p>0 to 0.5" WC thru 0 to 3K PSID (12 MBAR to 207 BAR)</p>
<p><b>STATIC ACCURACY (BFSL) (HYSTERESIS, NON-LINEARITY &amp; REPEATABILITY @ +70 °F)</b></p> <p><b>Standard:</b> ±0.2% FSO  <b>Improved:</b> ±0.075% FSO  <b>Static Line Pressure Effect:</b>                      0.5" WC thru 30 PSI: ±0.60% FSO/1000 PSI                      50 PSI thru 3000 PSI: ±1.0% FSO/1000 PSI</p>	<p><b>THERMAL SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Compensated:</b> -40 °F to +350 °F (-40 °C to +177 °C)</li> <li>• <b>Operating Process:</b> -50 °F to +360 °F (-45 °C to +182 °C)</li> <li>• <b>Operating Ambient:</b> -50 °F to +120 °F (-45 °C to +49 °C)</li> <li>• <b>Storage:</b> -60 °F to +190 °F (-51 °C to +82 °C)</li> </ul>
	<p><b>OPTIONAL</b></p> <ul style="list-style-type: none"> <li>• <b>Optional LCD Indicator:</b> Operative limits of the standard indicator are -20 °F to + 185 °F (-29 °C to + 85 °C), normal operating limits are -4 °F to + 185 °F (-20 °C to +82 °C)</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 Blue Ribbon Corporation for assistance with your application.