

## SMART DIFFERENTIAL PRESSURE TRANSMITTER

### MODEL GPIDP



Model GPIDP  
Smart Differential Pressure Transmitter

#### 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® communication
- 30:1 turn down
- 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:

GP:50 Model GPIDP 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 an integral LCD display.

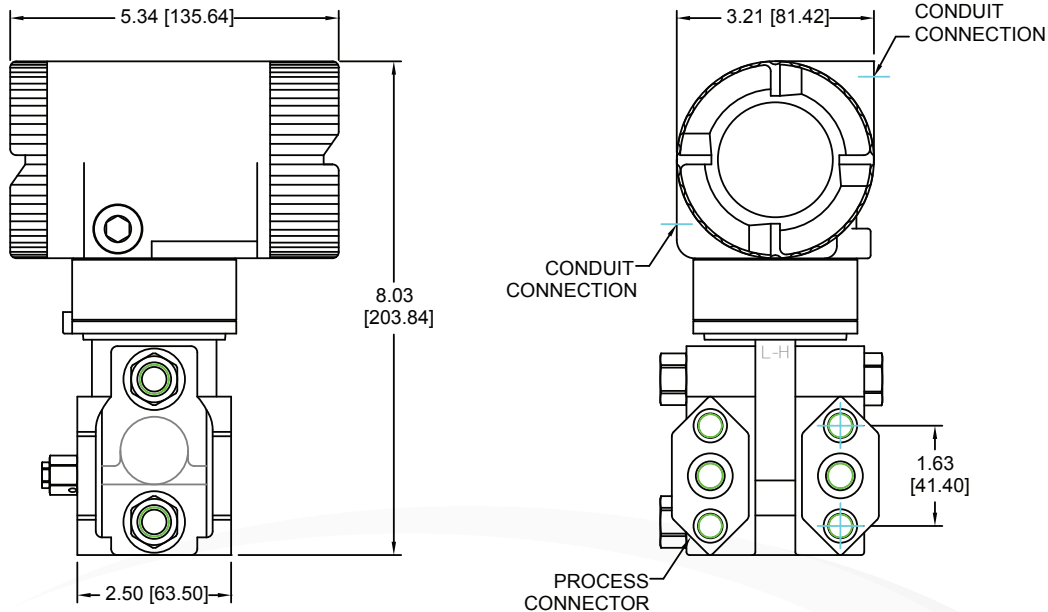
#### FIELD OPTIONS:

- 30:1 turn down
- Push button adjust with LCD display
- Exotic wetted parts available
- 1 to 5 Vdc Low-power option

# GP:50 MODEL GPIDP

## 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, 4-20 mA 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>	<p><b>PRESSURE RANGES</b></p>
<ul style="list-style-type: none"> <li>• <b>Wetted Parts:</b> 316L stainless steel (optional exotic materials)</li> <li>• <b>Housing:</b> Epoxy coated aluminum alloy</li> </ul>	<p>0 to 0.5" WC thru 0 to 3K PSID (12 MBAR to 207 BAR)</p>
<p><b>STATIC ACCURACY (RSS) (HYSTERESIS, NON-LINEARITY &amp; REPEATABILITY @ +70 °F)</b></p>	<p><b>THERMAL SPECIFICATIONS</b></p>
<ul style="list-style-type: none"> <li>• <b>Standard:</b> ±0.2% FSO</li> <li>• <b>Improved:</b> ±0.075% FSO</li> <li>• <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</li> </ul>	<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 +87 °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>

**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.

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Tel: 01344 776666 Fax: 01344 774765 Email: [info@interface.uk.com](mailto:info@interface.uk.com) Web: [www.gp50.co.uk](http://www.gp50.co.uk)

