



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:

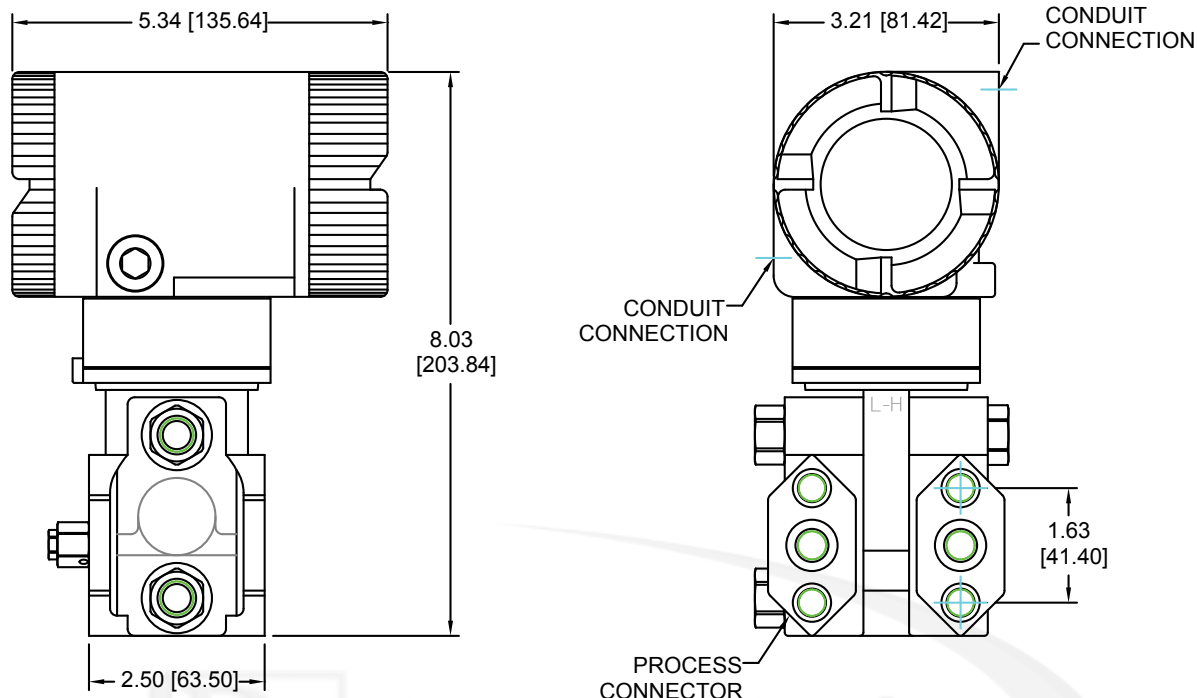
- Push button adjust with LCD display
- Exotic wetted parts
- 1 to 5 Vdc low power

BR5SL-TX-019
REV-A

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DIMENSIONAL DRAWING

All dimensions are in inches (mm)



REFERENCE SPECIFICATIONS

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

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.

