



# BLUE RIBBON CORP.

## OEM PRESSURE TRANSDUCER

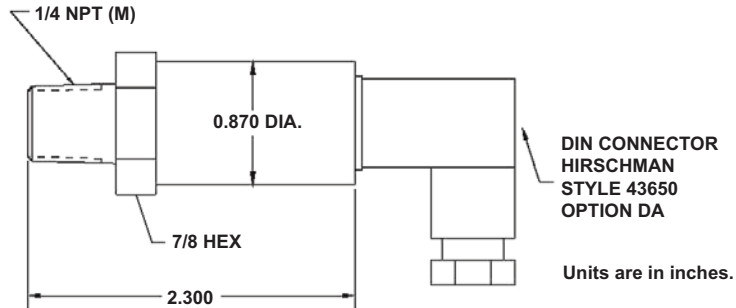
Models BR1002, BR1003

### APPLICATIONS:

- Industrial OEM
- Hydraulic Systems
- Compressor Controls
- Pneumatic Controls
- Pump Controls
- Automotive

### FEATURES:

- Low cost, high reliability
- Small size, lightweight
- Rugged, welded stainless steel construction
- NEMA-4X/IP65 rated connector
- 0-5 VDC, 4-20 mA
- $\pm 0.5\%$  FSO Standard ( $\pm 0.25\%$  FSO optional)



## WIRING CODE

PIN/WIRE	1002	1003
A/1 RED	+ EXCITATION	+ EXCITATION/SIGNAL
B/2 BLACK	- EXCITATION	- EXCITATION/SIGNAL
C/3 GREEN	+ SIGNAL	N/C
D/4 SHIELD	OPEN	OPEN

To avoid ground loops, earth ground the shield wire or the transducer case, but not both.

Blue Ribbon reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.

A5BR-1000.00



# BLUE RIBBON CORP.

Standard Specifications listed below.

Consult factory for further options, which may change the overall dimensions.

<b>Output (at 70°F)</b>	<b>Model BR1002</b> 0-5 VDC	<b>Model BR1003</b> 4-20mA	
<b>Accuracy</b>	<b>Includes Non-linearity, Hysteresis, Repeatability and Resolution</b> B ± 0.5% FSO C ± 0.25% FSO Infinite (Practical=0.06% FSO)		
<b>Pressure Ranges</b>	0-15 PSI thru 0-10,000 PSI		
<b>Pressure Types</b>	<b>2</b> Gauge <b>3</b> Absolute <b>4</b> Vacuum	<b>7</b> Sealed Gauge <b>10</b> Compound	
<b>Zero Balance (at 70°F)</b>	± 2% FSO		
<b>Span Tolerance</b>	± 2% FSO		
<b>Temperature Limits</b>	<b>Compensated</b> -40°F to +210°F	<b>Operating</b> -40°F to +220°F	<b>Storage</b> -40°F to +250°F
<b>Temperature Compensation</b>	<b>Zero / Span (Standard)</b> ±2.0% FSO		
<b>Electricals</b>	<b>Excitation</b> 12 – 32 VDC		
<b>Insulation Resistance</b>	10 megohms at 50 VDC pin to case		
<b>Standard Connections</b>	<b>Process Connection</b> 1/4" NPT (M) (additional connections available upon request)	<b>Electrical Connection</b> 36" Long Belden 8723, 24AWG, 4 conductor cable (or equivalent)	
<b>Connector</b>	NEMA 4X, IP65		
<b>Mechanicals</b>	<b>Proof Pressure</b> 1.5X FSPR	<b>Burst Pressure</b> 3X FSPR	
<b>Pressure Response</b>	<1 ms (10% to 90%)		
<b>Performance Ratings</b>	<b>Shock</b> 1m (free-fall onto steel plate) per IEC 68-2-32	<b>Vibration</b> 20g per IEC 68-2-6 and 68-2-36	
<b>Total Error *</b> -40°F to -4°F -4°F to +185°F +185°F to +212°F	<b>Includes Non-linearity, Hysteresis, Repeatability and Temperature</b> 3.0% (typ. 2.0%) 1.0% (typ. 0.7%) 2.5% (typ. 1.5%)		
<b>Wetted Material</b>	316 Stainless Steel and Nylon		
<b>Enclosure Material</b>	316, 15-5 PH or 17-4 Stainless Steel		
<b>Mounting</b>	Pressure Port		

## MODEL

**1002** 0-5 Vdc - .5-4.5 Available

**1003** 4-20 mA

## ACCURACY

**B** 0.5% FSO

**C** 0.25% FSO

## PRESSURE RANGE (PSI)

**PP** 0-15

**RF** 0-300

**RS** 0-2500

**PT** 0-30

**RH** 0-500

**RT** 0-3000

**PV** 0-50

**PJ** 0-5

**RV** 0-5000

**PX** 0-75

**PN** 0-10

**RX** 0-7500

**PZ** 0-100

**RK** 0-750

**RZ** 0-10,000

**RB** 0-150

**RM** 0-1000

**RD** 0-200

**RO** 0-1500

**RE** 0-250

**RR** 0-2000

## PRESSURE TYPES

**2** Gauge

**7** Sealed Gauge

**3** Absolute

**10** Compound

**4** Vacuum

## ORDERING GUIDE: (Minimum of 10 pcs per order)

MODEL	ACCURACY	PRESSURE RANGE	PRESSURE TYPES	OPTIONS
•	+	•	+	••

## CONNECTOR

**AA** 36" Wire, NEMA 4

**DA** DIN style, 43650, w/mate

**DC** Turck M12

**CZ** Alternate Connector/Cable

## ALTERNATE PRESSURE PORT

**AA** 1/4" NPT (M)

**FL** 1/8" NPT (M)

**LT** SAE 4 Male

## GENERAL

**GS** 0-10 Vdc FSO

**GZ** Alternate Output, Customer Special

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