



BLUE RIBBON CORP.

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OEM PRESSURE TRANSDUCER MODELS BR1002, BR1003

APPLICATIONS:

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

FEATURES:

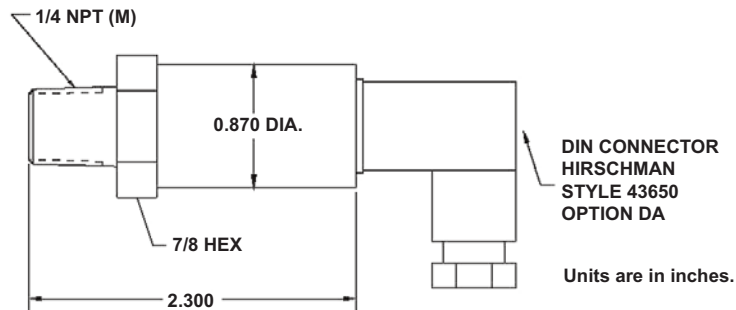
- Low cost, high reliability
- Small size, lightweight
- Rugged, welded stainless steel construction
- NEMA-4X/IP65 rated connector
- 0-5 VDC, 4-20 mA
- $\pm 0.5\%$ FSO Standard ($\pm 0.25\%$ FSO optional)



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.



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Standard Specifications listed below. Consult factory for further options, which may change the overall dimensions.

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