

BR Series



Ultra-High Pressure Transmitter

Up to 100K psi Pressure Measurement

Designed for measurement of high pressure

Dylix's BR Series is designed for the OEM or end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the sensing element is its small size, which greatly reduces the amount of force exerted by high pressure. This feature makes the BR ideal for high cyclical/high pressure applications.

Manufactured for extended life cycles

The BR Series is built using advanced manufacturing techniques with automated weld procedures, extreme environmental burn-in and through residual stress relieving techniques. The BR is modular and configurable to meet Dylix's customers exact requirements.

Standard NEMA 4X packaging

Every Dylix BR Series is rated to NEMA 4X standards regardless of pressure range or format. Pressure ranges are available from 0-20K psi through 0-100K psi.

Dylix's Customer Service

Every BR Series is shipped with a NIST traceable calibration certificate. Expediting services available.

Designed for high cycles



24" Wire Leads
NEMA 4X is Standard
(Option Code: B01)

Standard Features

- ≤± 0.25% FSO Static Accuracy
- NEMA 4X Packaging
- ≤± 0.25% FSO/YR Stability

Available Options

- ≤± 0.1% FSO Static Accuracy
- Zero & Span Controls
- Digital Output

Shown with Optional DIN 43650 A
(Option Code: B11)

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Pressure Instruments*

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BR Series Pressure Transmitter



0-20K through 0-100K psi
High Accuracy/High Stability

Product Specifications

Electrical

Excitation	
BR1	2-15 Vdc
BR2 & BR3	8-38 Vdc*
Output	
BR1	1-2 mV/V*
BR2	0-5 Vdc*
BR3	4-20 mAdc
Zero Balance	± 1% FSO
FSO Setting	± 1% FSO
Resolution	Infinite (± 0.001% FSO usable)
Response Time	
BR1	< 1 mS
BR2 & BR3	< 5 mS
Insulation Resistance	1,000 M Ω @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	± 0.002% FSO per V input (BR2 & BR3)
EMI/RFI	Internal Filtering (BR2 & BR3)
Short Circuit Protected	Up to 40 Vdc (BR2 & BR3)

Mechanical

Pressure Ranges	0-20K through 0-100K psi (Customer may specify any range/eng. unit)
Proof Pressure	2X Full Scale* (160K psi max)
Burst Pressure	5X Full Scale* (180K psi max)
Materials	
Wetted Parts	15-5 SST ranges ≤ 40 K PSI Custom 465 ranges > 40 K PSI
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	Autoclave F-312-C*
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	Per outline below
Weight	Nominal 12 oz

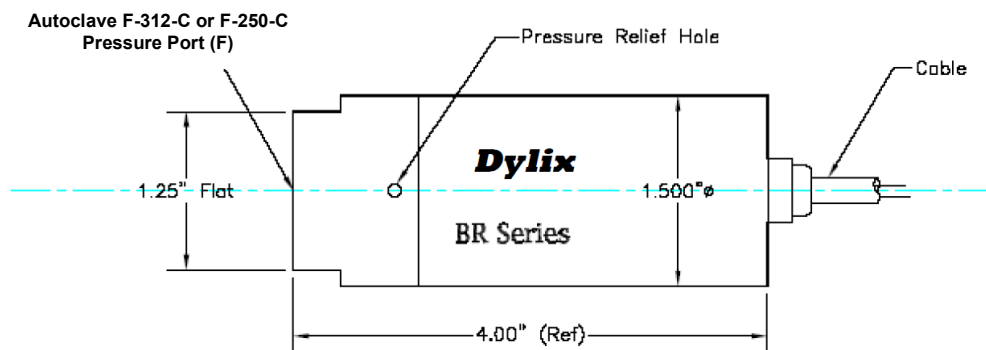
Environmental

Compensated Temp Range	0 to 170° F
Operating Temp Range	-40 to 200° F
Storage Temp Range	-40 to 250° F

Performance

Static Accuracy	≤ ± 0.25% FSO* (BFSL, RSS) <i>(Combined effects of non-linearity, hysteresis & repeatability)</i>
Repeatability	≤ ± 0.15% FSO
Temperature Effects	≤ ± 1.5% FSO over comp range* <i>(Combined effects of Zero & FSO with reference at 70° F)</i>
Long Term Stability	≤ ± 0.25% FSO per year

*Options Available



Standard Wiring:

Model	Output	+ Power	- Power	+ Signal	- Signal
BR1	mV/V dc 4 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	White/Pin 4/Pin D
BR2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	
BR3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

Dylix Corporation reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.

Data Sheet BR-07 Rev C