

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 cycle

The BR Series is built using advanced manufacturing techniques, with automated weld procedures, extreme environmental burn-in and thorough 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 0-60k psi through 0-100k psi.

Dylix's Customer Service

Every BR Series is shipped within 2-3 Weeks ARO with a NIST traceable calibration certificate. Expediting services available.

Designed for high cycles



NEMA 4X

Standard Features

*≤±0.5% FSO Static Accuracy
NEMA 4X Packaging
≤±0.25% FSO/YR Stability*

Available Options

*≤±0.25% or 0.1% FSO Static Accuracy
Zero/Span Controls with Cal
Digital Output*

Shown with optional DIN 43650

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*Design & Manufacture of
Pressure Instruments*

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BR Series Pressure Transmitter



0-60k psi 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	$\leq \pm 1\%$ FSO
FSO Setting	$\leq \pm 1\%$ FSO
Resolution	Infinite ($\pm .001\%$ FSO usable)
Response Time	
BR1	< 1mS
BR2 & BR3	< 5 mS
Insulation Resistance	1000 M Ω @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	$\leq \pm .002\%$ FSO per V input (BR2 & BR3)
EMI/RFI	Internal Filtering (BR2 & BR3)
Short Circuit Protected	Up to 40 Vdc (BR2 & BR3)

Mechanical

Pressure Ranges	0-60k through 0-100k psi (Customer may specify any range/eng. unit FOC)
Proof Pressure	2X Full Scale* (160k psi max)
Burst Pressure	5X Full Scale* (180k psi max)
Materials	
Wetted Parts*	15-5 SST
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	Autoclave F-312C
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	per outline below
Weight	nominal 12 oz

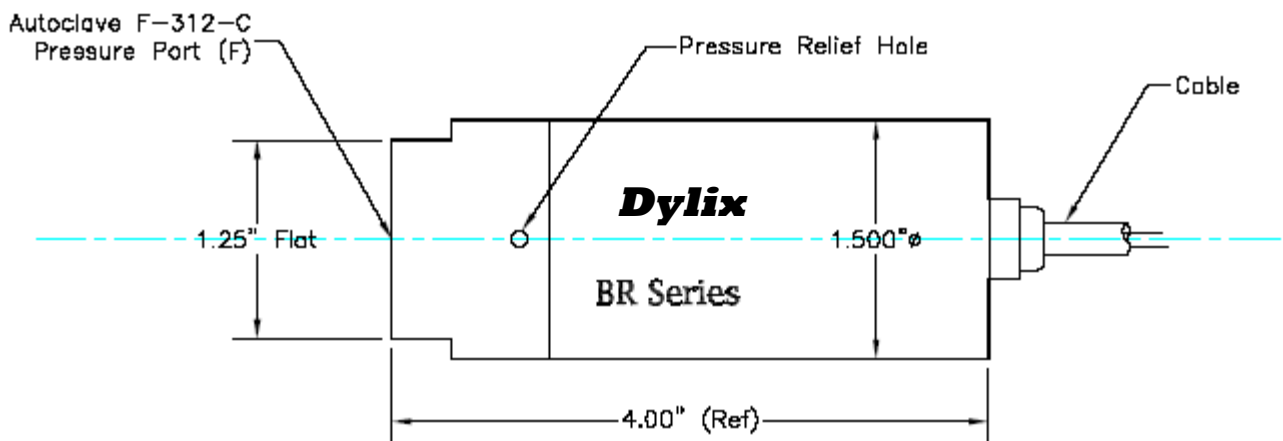
Environmental

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

Performance

Static Accuracy	$\leq \pm 0.5\%$ FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis, & repeatability)
Repeatability	$\leq \pm 0.15\%$ FSO
Temperature Effects	$\leq \pm 1.5\%$ FSO over comp range* (combined effects of zero & FSO with reference at 70 °F)
Long Term Stability	$\leq \pm 0.25\%$ 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	+ Sig ref to - Power
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 A