

GXR Series



Gage/Absolute Pressure Transmitter

General Process Pressure Measurement

Manufactured for reliable service in aggressive environments

The GXR is manufactured for reliability in aggressive environments where other transmitters fail. Dylix's automated weld procedures, extreme environmental burn-in, and the mounting of our electronics to withstand the most severe shock and vibration applications are all geared toward safety and reliability. Additional EMI/RFI filtering with surge protection add to the performance of the GXR.

Alternate materials for service in corrosive environments

For corrosive environments where 316 SS & 17-4 are not best suited, the GXR is available in Hastelloy C276.

Dylix's Customer Service

Each GXR transmitter is shipped with a NIST traceable calibration certificate.

Hart Protocol Available



**Shown with optional
1/2" NPT (Male) Conduit
(Option Code: B07)**

Standard Features

Rugged All-Welded Pressure Cavity
± 0.25% FSO Static Accuracy
0-1 psi through 0-20,000 psi

Available Options

± 0.1% FSO Static Accuracy
± 0.5% FSO Thermal Error Band
Hastelloy Materials
Low Power

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Pressure Instruments*

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GXR Series Pressure Transmitter



0-1 through 0-20K psi

Product Specifications

Electrical

Excitation	
GXR1	2-15 Vdc
GXR2 & GXR3	8-38 Vdc*
Output	
GXR1	1-2 mV/V*
GXR2	0-5 Vdc*
GXR3	4-20 mAdc
Zero Balance	± 1% FSO
FSO Setting	± 1% FSO
Resolution	Infinite (± 0.001% FSO usable)
Response Time	
GXR1	< 1 mS
GXR2 & GXR3	< 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 (GXR2, GXR3)
EMI/RFI	Internal Filtering (GXR2, GXR3)
Short Circuit Protected	Up to 40 Vdc (GXR2, GXR3)

Mechanical

Pressure Ranges	0-1 through 0-20K psi (Customer may specify any range/eng. unit) (Absolute, Vacuum or Compound are available options)
Proof Pressure	2X Full Scale*
Burst Pressure	5X Full Scale*
Material	
Wetted Parts	316 & 17-4 SST*
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	1/4" NPT (Female)*
Electrical Connector	NEMA 4X cable exit 24" of cable*
Dimensions	Per outline below
Weight	Nominal 15 oz.

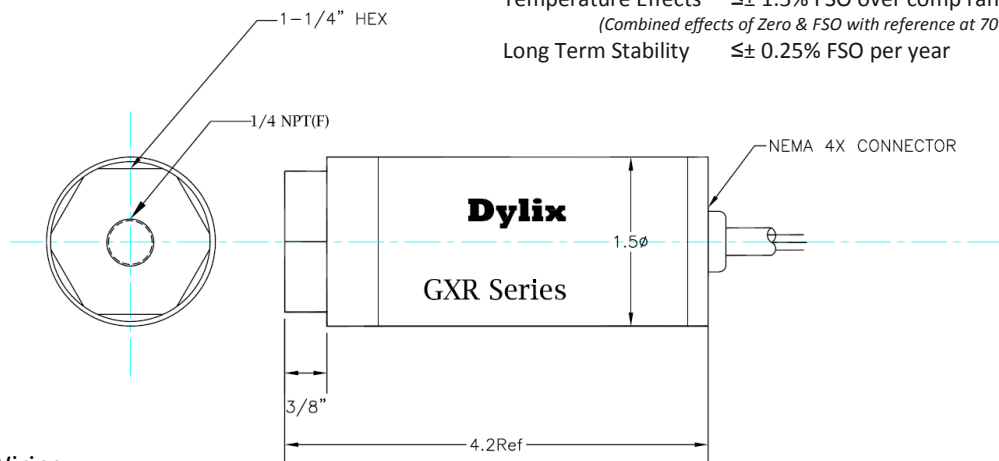
Environmental

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	≤ ± 0.05% 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
GXR1	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
GXR2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	
GXR3	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 GXR-07 Rev B