

## Industrial Pressure Transmitter

### GX Series



#### Design & Application

##### **Aimed for performance/cost at single piece quantities**

The GX Series Pressure Transducer is intended to provide customers with an economical solution to their industrial pressure measurement needs. Key feature of the sensing element is its isolation from induced stresses such as mounting torque, thermal excursions, and vibration/shock. The GX is configurable (from single piece orders to large volumes) to meet Dylix's customers needs without sacrificing delivery or large increases in price.

All configurations of the Dylix GX Series are rated to NEMA 4X standards. Pressure ranges are available from 0-1 psig through 0-15,000 psig.

#### Manufacturing and Quality

The GX Series is built using an advanced modular assembly process that allows high customization and short delivery times.

Sophisticated manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the GX Series maintains its performance over time

#### Dylix's Customer Service

Each transducer is delivered with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

#### Standard Features

- $\pm 0.25\%$  FSO Static Accuracy
- NEMA 4X Packaging
- $\pm 0.25\%$  FSO/YR stability

#### Optional Features

- $\pm 0.1\%$  FSO Static Accuracy
- Alternate Wetted Materials
- Zero/Span Controls/ Shunt Cal
- Intrinsically Safe

**Contact Dylix Sales for  
Other Custom Applications...**  
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# Specifications: GX Series

Baseline Configuration Specs Represented.  
Modifications Encouraged - See Below  
Custom Designs Available

## Pressure Transmitter

0-1 through 0-15K psi Industrial Pressure Transmitter

### Electrical

#### Excitation

GX1	2-15 Vdc
GX2, GX3	9-36 Vdc*
GX7	9-32 Vdc*

#### Output

GX1	1-2 mV/V*
GX2	0-5 Vdc* (N/A for < 5 psi)
GX3	4-20 mA <sub>dc</sub>
GX7	4-20 mA <sub>dc</sub> Intrinsically Safe

#### Zero Balance

± 1% FSO

#### FSO Setting

± 1% FSO

#### Resolution

Infinite (± 0.001% FSO usable)

#### Response Time

GX1	< 1 mS
GX2, GX3, GX7	< 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  
(GX2, GX3, GX7)

#### EMI/RFI

Internal Filtering (GX2, GX3, GX7)

#### Short Circuit Protected

40 Vdc (GX2, GX3, GX7)

### Mechanical

#### Pressure Ranges

0-1 through 0-15K 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\*

#### Materials

Wetted Parts	316 & 17-4 ss*
Non-wetted Parts	316 ss

#### Pressure Port

1/4" NPT (Male)\*

#### Electrical Connector

NEMA 4X cable exit (24" cable)\*

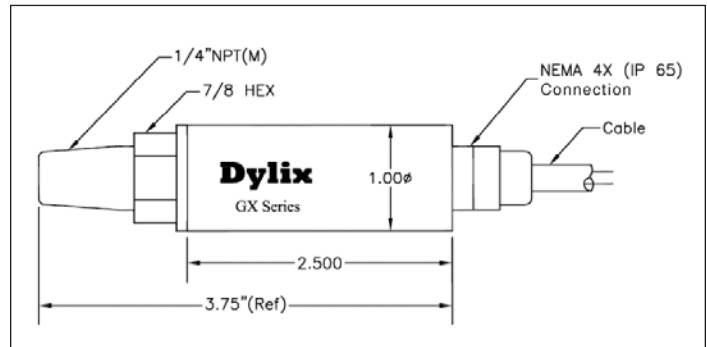
#### Dimensions

Per Drawing

#### Weight

10 oz (nominal)

### Product Dimensions (inches)



### Performance

#### Static Accuracy

± 0.25% FSO\* (BFSL, RSS)  
(Combined effects of non-linearity,  
hysteresis & repeatability)

#### Repeatability

± 0.05% FSO

#### Temperature Effects

± 1.5% FSO over comp range  
(Combined effects of Zero & FSO  
with reference at 70° F)

#### Long Term Stability

± 0.25% FSO per year

### Environmental

#### Compensated Temp Range

0° to 170° F

#### Operating Temp Range (GX1, GX2, GX3)

-40° to 200° F

#### Operating Temp Range (GX7)

-40° to 175° F

#### Storage Temp Range

-40° to 250° F

### Certifications

CSA C/US Intrinsically Safe Class1 Div 1 Groups A,B,C,D T4

CSA C/US Intrinsically Safe Zone 0,1&2 A/Ex ia IIC T4 Ga

### Entity Parameters

V <sub>max, Ui</sub>	32 Vdc
I <sub>max, Ii</sub>	100 mA
P <sub>max, Pi</sub>	800 mW
C <sub>i</sub>	0.055 μF
L <sub>i</sub>	0 mH

### Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
GX1	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
GX2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	Black/Pin 2/Pin B
GX3	4-20 mA <sub>dc</sub> 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
GX7	4-20 mA <sub>dc</sub> 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

\*Options Available

### Modifications and Warranty

**MODIFICATIONS:** Transducer/Transmitter applications vary greatly. As such our designs are flexible. Choices such as pressure ports, electrical termination, material compatibility, and performance are a few of the many options available. Specifications on this datasheet represent standard configuration only. Product and company names that may be listed are trademarks of their respective companies. Any and all specifications subject to change without notice.

**WARRANTY:** Dylux Corporation warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Dylux Corporation's obligation shall be limited to correcting any defective material. FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Dylux Corporation. This warranty is in lieu of all other warranties expressed or implied.

Due to the nature of technology, changes are inevitable.  
For latest technical specifications, see our website.



A US Designer and Manufacturer of  
Pressure Transducers & Transmitters

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