

Flush Industrial Pressure Transmitter FLO Series



Shown with
Optional Mini DIN 43650 C

“Oil Filled” Flush Diaphragm Sensor

Design & Application

Dylix’s FLO Series pressure transmitter is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price. Key feature of the FLO is its oil filled sensing element. The sensing diaphragm is machined from a solid piece of steel, and can withstand the most abrasive / cyclical applications.

Manufacturing & Quality

Dylix’s engineers developed this product to last in high cyclical environments with the presence of water-hammering or spiking. Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the FLO Series maintains its performance over time.

Dylix’s Customer Service

Every FLO Series is shipped with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

Standard Features

- $\leq \pm 0.5\%$ FSO Static Accuracy
- NEMA 4X Packaging
- $\leq \pm 0.25\%$ FSO/YR Stability

Optional Features

- $\leq \pm 0.25\%$ FSO Static Accuracy
- Hastelloy Wetted Materials
- Zero & Span Controls / Shunt Cal

**Contact Dylix Sales for
Other Custom Applications...**
sales@dylixcorp.com • 716.773.2985

Specifications: FLO Series

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

Pressure Transmitter

0-5 through 0-300 psi, Mechanically Isolated Sensor for Low Clamping Effect

Electrical

Excitation

FLO1	2-15 Vdc
FLO2, FLO3	8-38 Vdc*

Output

FLO1	1-2 mV/V*
FLO2	0-5 Vdc*
FLO3	4-20 mAcd

Zero Balance

≤±1% FSO

FSO Setting

≤±1% FSO

Resolution

Infinite (±0.001% FSO usable)

Response Time

FLO1	< 0.5 mS
FLO2, FLO3	< 3 mS

Insulation Resistance

1000 M Ω at 50 Vdc

Reverse Polarity

Protected

Warm-up

< 10 mS

Power Supply Effect

±0.002% FSO per V input
(FLO2, FLO3)

EMI/RFI

Internal Filtering (FLO2, FLO3)

Short Circuit Protected

Up to 40 Vdc (FLO2, FLO3)

Mechanical

Pressure Ranges

0-50 through 0-300 psi
(Customer may specify any range/eng. unit)
(Absolute, vacuum & compound are available options)

Proof Pressure

2X Full Scale*

Burst Pressure

5X Full Scale* (15k psi max)

Materials

Wetted Parts	316 & 17-4 ss*
Non-wetted Parts	316 ss plus electrical connector

Pressure Port

3/4-16 UNF Flush with O-Ring*

Electrical Connector

NEMA 4X cable exit (24" cable)*

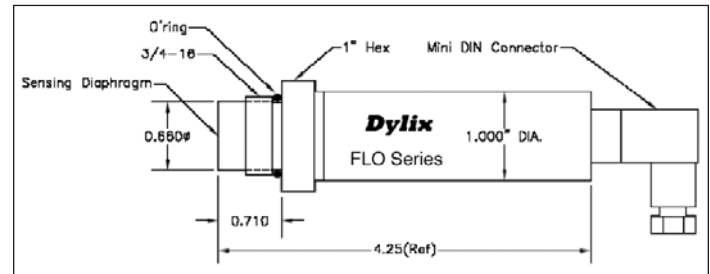
Dimensions

Per Drawing

Weight

Nominal 10 oz.

Product Dimensions (inches)



Performance

Static Accuracy

≤± 0.5% FSO* (BFSL, RSS)*
(Combined effects of non-linearity, hysteresis & repeatability)

Repeatability

≤± 0.1% 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

-40° to 200° F

Storage Temp Range

-40° to 250° F

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
FLO1	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
FLO2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	
FLO3	4-20 mAcd 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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