

Flush Industrial Pressure Transmitter FL Series



"Non-Oil Filled" Flush Diaphragm Sensor

Design & Application

Dylix's FL Series pressure transmitter's innovative design is for the OEM and end user where ruggedness for high cyclical applications, including water hammer or spiking, is required. High performance and reliability can thus be provided at a competitive price. Key feature of the FL is its non-oil filled sensing element, with the sensing diaphragm machined from a solid piece of steel to withstand the most abrasive conditions.

Manufacturing & Quality

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

Dylix's Customer Service

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

Standard Features

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

Optional Features

- ≤±0.25% FSO Static Accuracy
- · Hastelloy Wetted Materials
- · Zero & Span Controls / Shunt Cal
- Intrinsically Safe

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

Specifications: FL Series

Pressure Transmitter

0-50 through 0-7,500 psi, Mechanically Isolated Sensor for Low Clamping Effect

Electrical

Excitation

FL1 2-15 Vdc FL2, FL3, FL7 9-38 Vdc*

Output

FL1 1-2 mV/V* FL2 0-5 Vdc* FL3 4-20 mAdc

FL7 4-20 mAdc Intrinsically Safe

Zero Balance $\leq \pm 1\%$ FSO FSO Setting $\leq \pm 1\%$ FSO

Resolution Infinite (±0.001% FSO usable)

Response Time

FL1 < 0.5 mS FL2, FL3, FL7 < 3 mS

Insulation Resistance $1000 \text{ M}\ \Omega$ at 50 Vdc

Reverse Polarity Protected **Warm-up** < 10 mS

Power Supply Effect ≤± 0.002% FSO per V input

(FL2, FL3, FL7)

EMI/RFI Internal Filtering (FL2, FL3, FL7)

Short Circuit Protected 40 Vac (FL2, FL3, FL7)

Mechanical

Pressure Ranges 0-50 through 0-7,500 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)

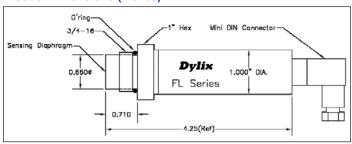
Materials

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

Pressure Port 3/4-16 UNF Flush with O-Ring*
Electrical Connector NEMA 4X cable exit (24" cable)*

DimensionsPer DrawingWeightNominal 10 oz.

Product Dimensions (inches)



Performance

Static Accuracy ≤± 0.5% FSO* (BFSL, RSS)*

(Combined effects of non-linearity,

Baseline Configuration Specs Represented.

Modifications Encouraged - See Below

Custom Designs Available

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 Range0° to 170° FOperating Temp Range-40° to 200° FStorage Temp Range-40° to 250° F

Certifications

CSA/CUS Intrinsically Safe Class I Div. 1 Groups A,B,C,D T4 CSA/CUS Intrinsically Safe Zone 0,1&2 (A)Ex ia IIC T4 Ga

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
FL1	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
FL2	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
FL3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
FL7	4-20 mAdc 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: Dylix 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 Dylix 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 Dylix Corporation. This warranty is in lieu of all other warranties expressed or implied.



347 Lang Blvd. Grand Island, NY 14072 USA Phone: 716.773.2985 I Fax: 716.773.2786 Web: dylixcorp.com