FL Series

Flush Pressure Transmitter

Dylix® Corporation

"Non-Filled Flush Diaphragm Sensor

Designed for the highest system integrity
Dylix's FL 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 FL is its non oil –filled sensing element. The sensing diaphragm is machined from a solid piece of steel, and can withstand the most abrasive / cyclical applications.

Manufactured for extended life cycle
Dylix's engineers developed this product to last in high cyclical environments with or without the presence of waterhammering or spiking. Advanced manufacturing techniques, extreme environmental burn-in and thorough residual stress relieving procedures ensure the FL Series maintains its performance over time.

Designed to meet IS standards
The FL Series is designed to meet or exceed the standards for IS.

Dylix's Customer Service
Every FL Series is shipped within 2-3 Weeks ARO with a NIST traceable calibration certificate

Hasteloy or Inconel sensors available

NEMA 4X

Shown with optional DIN 43650

Standard Features

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

Available Options

±≤0.25% FSO Static Accuracy
Alternate Wetted Materials
Zero/Span Controls / Shunt Cal

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Design & Manufacture of Pressure Instruments

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FL Series Pressure Transmitter

0-100 psi through 0-7,500 psi
Mechanically Isolated Sensor for Low Clamping Effect

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Product Specifications

Electrical

Excitation	
FL1	2-15 Vdc
FL2 & FL3	8-38 Vdc*
Output	
FL1	1-2 mV/V*
FL2	0-5 Vdc*
FL3	4-20 mAdc
Zero Balance	≤±1% FSO
FSO Setting	≤±1% FSO
Resolution	Infinite (±.001% FSO usable)
Response Time	
FL1	< 0.5 mS
FL2 & FL3	< 3 mS
Insulation Resistance	1000 MΩ @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	≤±.002% FSO per V input (FL2 & FL3)
EMI/RFI	Internal Filtering (FL2 & FL3)
Short Circuit Protected	Up to 40 Vdc (FL2 & FL3)

***Options Available**

Mechanical

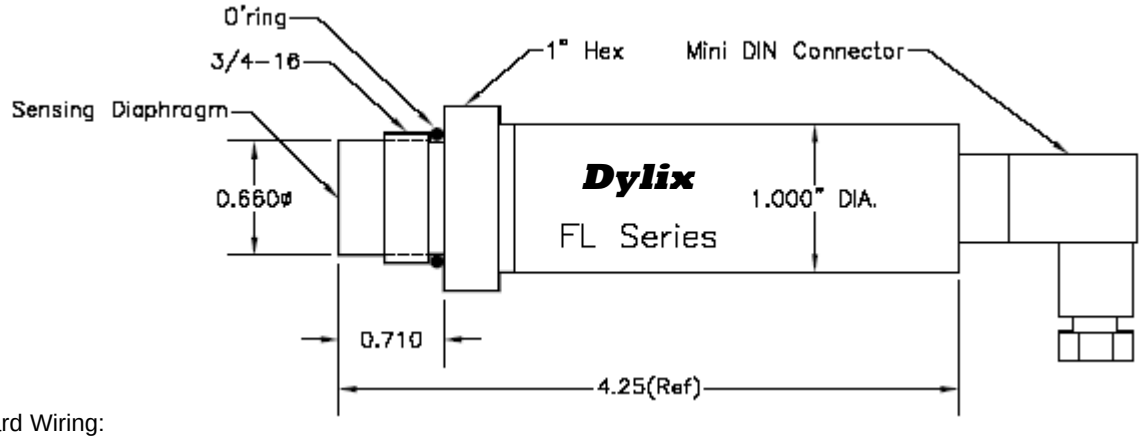
Pressure Ranges	0-100 through 0-7,500 psi
	(Customer may specify any range/eng. unit FOC)
	(Absolute, vacuum, compound available options)
Proof Pressure	2X Full Scale*
Burst Pressure	5X Full Scale* (15k psi max)
Materials	
Wetted Parts*	15-5 SST*
Non-wetted Parts	316 SST plus electrical connector*
Pressure Port	¾-16 UNF Flush with 'O'-Ring*
Electrical Connector	NEMA 4X cable exit (24" cable)*
Dimensions	per outline below
Weight	nominal 10 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	≤±0.5% 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



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	+ Sig ref to - Power
FL3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	