

Tank Level Transmitter

FD Series



For Anderson, Cherry Burrell, or King Gage Receivers

Design & Application

Dylix's FD Series is designed for sanitary CIP/SIP systems. Key feature of the sensing element is advanced temperature compensation methods, which not only improves performance over a wide temperature band, but greatly reduces CIP/SIP recovery times.

The FD's construction of all 316L SST makes it an ideal choice for applications involving aggressive fluids.

Manufacturing & Quality

The FD is built using an advanced modular assembly process that allows high customization and short delivery times. Sophisticated manufacturing techniques, with automated weld procedures, extreme environmental burn-in and thorough residual stress relieving processes ensure the FD Series maintains its performance over time. The FD Series is manufactured for reliability and stability in high humidity environments, and where direct sprays for wash-downs are present.

Dylix's Customer Service

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

Standard Features

- $\leq \pm 0.25\%$ FSO Static Accuracy
- Media temperature up to 300° F
- $\leq \pm 0.25\%$ FSO/YR Stability

Optional Features

- $\leq \pm 0.1\%$ FSO Static Accuracy
- Improved Thermal Error Band to $\leq \pm 0.5\%$ FSO per 100° F Digital Output
- Intrinsically Safe

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

Specifications: FD Series

Pressure Transmitter

0-50 inwc through 0-50 psi, CIP/SIP Compatible

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

Electrical

Excitation

FD1 2-15 Vdc
FD2, FD3, FD7 9-36 Vdc*

Output

FD1 1-2 mV/V*
FD2 0-5 Vdc*
FD3 4-20 mAdc
FD7 4-20 mAdc Intrinsically Safe

Zero Balance

±1% FSO

FSO Setting

±1% FSO

Resolution

Infinite (0.001% FSO usable)

Response Time

< 5 mS

Insulation Resistance

100 M Ω at 50 Vdc

Reverse Polarity

Protected

Warm-up

< 10 mS

Power Supply Effect

±0.002% FSO per V input
(FD2, FD3, FD7)

EMI/RFI

Internal Filtering (FD2, FD3, FD7)

Short Circuit Protected

40 Vac (FD2, FD3, FD7)

Mechanical

Pressure Ranges

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

Proof Pressure

2X Full Scale*

Burst Pressure

5X Full Scale* (Max 3000 psi)

Materials

Wetted Parts 316L ss*

Pressure Port

To mate with Anderson, Cherry Burrell, or King Gage tank receivers

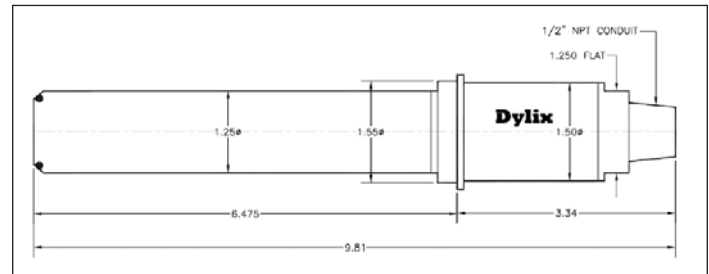
Electrical Connector

NEMA 4X cable exit w/10 ft cable*

Dimensions

Per Drawing

Product Dimensions (inches)



Performance

Static Accuracy

±0.25% 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

-20° to 300° 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
FD1	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
FD2	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
FD3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
FD7	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: 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

Dylux Corporation

347 Lang Blvd. Grand Island, NY 14072 USA

Phone: 716.773.2985 | Fax: 716.773.2786

Web: dyluxcorp.com

Copyright © 2018 Dylux Corporation • All Rights Reserved
Datasheet FD-1118