

Homogenizer Pressure Sensor FH Series





Extremely Low Clamping Effect

Design & Application

Dylix's FH Series Pressure Transmitter is designed for the OEM and end user where ruggedness, high performance, and reliability are required at a competitive price.

Key features of the FH are:

- 1. its non oil-filled sensing element
- 2. extremely low clamping effect

The sensing diaphragm is designed using a solid piece of steel, and can withstand the most abrasive/cyclical applications, including water hammer/spiking.

Manufacturing & Quality

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

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

Dylix's Customer Service

Every FH 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
- Fast Thermal Response Time
- Designed for wash-down areas

Optional Features

- · ≤±0.25% FSO Static Accuracy
- All Hastelloy Wetted Parts
- · Zero & Span Controls / Shunt Cal
- %" NPT conduit
- · Intrinsically Safe

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

Specifications: FH Series

Pressure Transmitter

0-100 through 0-20k psi, Low Clamping Effect / Designed for High Cycles

Electrical

Excitation

2-15 Vdc FH₁ FH2, FH3, FH7 9-36 Vdc*

Output

FH₁ 1-2 mV/V* FH2 0-5 Vdc* FH3 4-20 mAdc

FH7 4-20 mAdc Intrinsically Safe

Zero Balance ≤±1% FSO **FSO Setting** ≤±1% FSO

Resolution Infinite (±0.001% FSO usable)

Response Time

FH₁ < 0.5 mSFH2. FH3. FH7 < 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

(FH2, FH3, FH7)

EMI/RFI Internal Filtering (FH2, FH3, FH7)

Short Circuit Protected 40 Vdc (FH2, FH3, FH7)

Mechanical

Pressure Ranges 0-100 through 0-20k psi

(Customer may specify any

range/eng. unit)

(Absolute, vacuum & compound

are available options)

Proof Pressure 2X Full Scale (22,500 psi max) **Burst Pressure** 5X Full Scale (23,000 psi max)

Materials

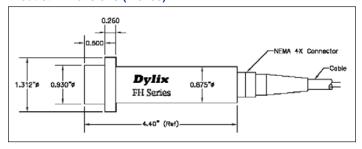
Wetted Parts 316 & 17-4 ss* Non-wetted Parts 316 ss

Pressure Port Standard Homogenizer

Electrical Connector NEMA 4X cable exit (24" cable)*

Dimensions Per Drawing Weight Nominal 10 oz.

Product Dimensions (inches)



Performance

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

(Combined effects of non-linearity,

Baseline Configuration Specs Represented. Modifications Encouraged - See Below

Custom Designs Available

hysteresis & repeatability)

Repeatability ±0.1% FSO

Temperature Effects ± .5% FSO over comp range*

(Combined effects of Zero & FSO

with reference at 70° F)

≤±0.25% FSO per year Long Term Stability

Environmental

Compensated Temp Range 0° to 170° F -40° to 200° F **Operating Temp Range 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

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
FH1	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
FH2	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
FH3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
FH7	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.



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