

Differential Pressure Transmitter HDP Series



High-Range Differential Pressure Measurement Design & Application

The HDP series differential pressure transmitter is designed for End Users and OEMs where ruggedness, high performance and reliability are required at a competitive price. This product is modular and is configurable to meet our customer's exact needs.

Differential pressure ranges from 0-100 to 0-20k psid are available.

Manufacturing & Quality

Every HDP Series is built using advanced manufacturing techniques to ensure symmetry between the HI and LO ports. Symmetry, along with automated welding procedures and extreme environmental burn-in, give Dylix's differential pressure products excellent performance and reliability over time and at high line pressure.

The HDP Series pressure ports all welded stainless steel, o-ring free design make it ideal for high cyclical applications, capillary filled systems or applications where a guaranteed leak free system is needed.

Dylix's Customer Service

Every HDP 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
- NEMA 4X Package

Optional Features

- 5x proof/max pressure
- Zero & Span Controls
- Inconel 718 Wetted Parts
- Intrinsically Safe

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

Specifications: HDP Series

Differential Pressure Transmitter

0-100 psid through 0-20K psid. High Range Differential Pressure

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

Electrical

Excitation

HDP1 2-15 Vdc
HDP2, HDP3, HDP7 9-36 Vdc*

Output

HDP1 1-2 mV/V*
HDP2 0-5 Vdc*
HDP3 4-20 mAdc
HDP7 4-20 mAdc Intrinsically Safe

Zero Balance

±1% FSO

FSO Setting

±1% FSO

Resolution

Infinite (± 0.001% FSO usable)

Response Time

HDP1 < 30 mS
HDP2, HDP3, HDP7 < 50 mS

Insulation Resistance

1,000 M Ω @ 50 Vdc

Reverse Polarity

Protected

Warm-up

< 20 mS

Power Supply Effect

± 0.002% FSO per V input
(HDP2, HDP3, HDP7)

EMI/RFI

Internal Filtering (HDP2, HDP3, HDP7)

Mechanical

Pressure Ranges

0-100 through 0-20,000 psid
(Customer may specify any range/eng. unit)

Proof Pressure

3X range (5X optional)

Burst Pressure

5X range (higher optional)

Materials

Wetted Parts 316L and 17-4 ss*
Non-wetted Parts 316L ss

Pressure Port

1/4" NPT (Female)*
A/E F250 C for line pressure >20k

Electrical Connector

mini DIN

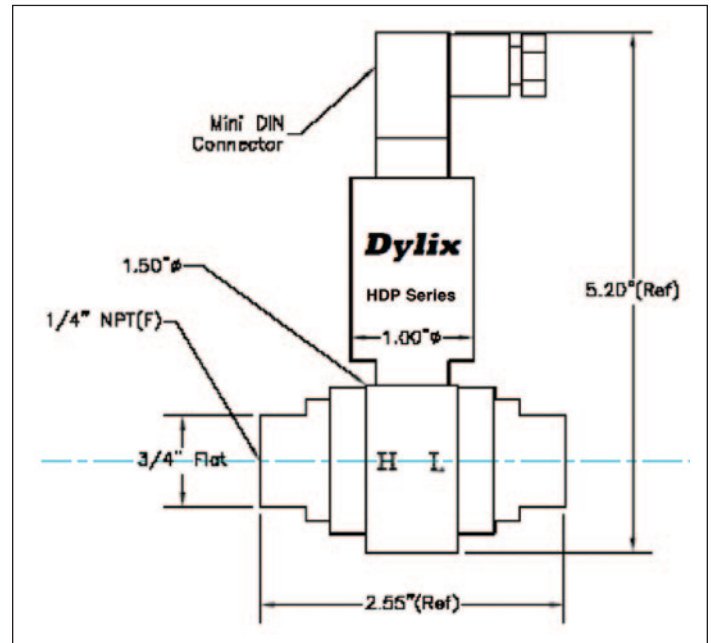
Dimensions

Per Drawing

Weight

13 oz

Product Dimensions (inches)



Performance

Static Accuracy

± 0.25% FSO BSL*

Repeatability

± 0.1% FSO

Temperature Effects

± 1.5% FSO/100° F 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

-30° to 170° F

Operating Temp Range

-40° to 185° F

Storage 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
HDP1	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
HDP2	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
HDP3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	
HDP7	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

*Options Available



A US Designer and Manufacturer of
Pressure Transducers & Transmitters

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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.

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