

## Explosion Proof Differential Pressure Transmitter

### EXD Series



### Certified for Hazardous Locations

#### Design & Application

Dylix's EXD Series Differential Pressure Transmitter is designed and approved for use in hazardous locations. The EXD's entirely welded 316L SST construction is hermetically sealed, making it ideal for the harshest pressure applications. CSA/CUS Explosion Proof certified for Class I Div 1 and Class I Div 2 Groups A, B, C, D.

#### Manufacturing & Quality

The EXD is built using an advanced modular assembly process and innovative manufacturing techniques to ensure symmetry between the Hi and Lo ports. This 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 elevated line pressure.

#### Dylix's Customer Service

Each EXD series is delivered with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

### Standard Features

- Hermetically Sealed Package
- $\leq \pm 0.25\%$  FSO Static Accuracy
- 0-5" H<sub>2</sub>O through 0-5,000 psi

### Optional Features

- $\leq \pm 0.1\%$  FSO Static Accuracy
- $\leq \pm 0.5\%$  FSO Thermal Error Band
- Low Power

**Contact Dylix Sales for  
Other Custom Applications...**  
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# Specifications: EXD Series

## Explosion Proof Differential Pressure Transmitter

0-5 inwc through 0-5K psid

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

### Electrical

#### Excitation

EXD1	2-15 Vdc
EXD2, EXD3	10-38 Vdc*

#### Output

EXD1	1-2 mV/V*
EXD2	0-5 Vdc*
EXD3	4-20 mAdc

#### Zero Balance

≤ 1% FSO

#### FSO Setting

≤ 1% FSO

#### Resolution

Infinite (0.001% FSO usable)

#### Response Time

EXD1	< 50 mS
EXD2, EXD3	< 100 mS

#### Insulation Resistance

1000 M Ω at 50 Vdc

#### Reverse Polarity

Protected

#### Warm-up

< 100 mS

#### Power Supply Effect

± ± .002% per V input

#### EMI/RFI

Internal Filtering (EXD2, EXD3, EXD7)

#### Short Circuit Protected

40 Vdc

### Mechanical

#### Pressure Ranges

- Range A: 0-5" inwc through 0-30 psid
  - Range B: 0-30 through 0-200 psid
  - Range C: 0-300 through 0-1K psid
  - Range D: 0-2K through 0-5K psid
- (Customer may specify any range/eng. unit)

#### Line Pressure

- Range A: 1,000 psi
- Range B: 1,000 psi
- Range C: 3,000 psi
- Range D: 2,000 psi

#### Proof Pressure

- Range A: 1,000 psi
- All others: 3X Full Scale either side (7K psi max)\*

#### Burst Pressure

- Range A: Minimum 3K psi
- Range B: Minimum 5K psi
- Range C: Minimum 10K psi
- Range D: Minimum 12K psi

#### Materials

Wetted Parts	316L ss
Non-Wetted Parts	316L ss plus electrical connector
Pressure Port*	¼" NPT (Female)*

#### Electrical Connector

½" NPT (Male) conduit cable exit with 24" cable\*

#### Weight

18 oz. nominal

### Performance

#### Static Accuracy

±±0.25% FSO\* (BFSL, RSS)\*  
(Combined effects of non-linearity, hysteresis & repeatability)

#### Static Pressure Effect

On Zero	±1% FSO per 1,000 psi
On Span	±1% of reading per 1,000 psi

#### Repeatability

±0.1% FSO

#### Temperature Effects

±1.5% FSO over comp range  
(Combined effects of Zero & FSO with reference at 70° F)

#### Mounting Effects

Zero shifts up to 1" H<sub>2</sub>O depending on orientation

#### Long Term Stability

±±0.25% FSO per year

### Environmental

#### Compensated Temp Range

0° to 170° F

#### Operating Temp Range

-20° to 200° F

#### Storage Temp Range

-40° to 250° F

### Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal	Case Ground
EXD1	mV/V dc 4 wire	Red	Black	Green	White	Tinned Wire
EXD2	0-5 (10) Vdc 3 wire	Red	Black	Green	Black	Tinned Wire
EXD3	4-20 mAdc 2 wire	Red		Black		Green

\*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

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