

EXD Series



Explosion Proof Differential Transmitter

Certified for Hazardous Locations

EX approved for hazardous locations

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 worst of pressure applications. CSA/CUS Explosion Proof certified for Class I Div 1 and Class I Div 2 Groups A, B, C, D.

Manufactured for extended life cycles

The EXD 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 elevated line pressure.

Entirely welded 316L SST pressure cavities

The EXD's pressure ports all welded 316L SST 'O'-Ring free design makes it ideal for high cyclical applications, capillary filled systems, or applications where a guaranteed leak free system is needed.

Dylix's Customer Service

Each EXD transmitter is shipped with a NIST traceable calibration certificate.

Analog or Switching Output



Wet/Wet

Standard Features

- Hermetically Sealed Package
- ± 0.25% FSO Static Accuracy
- 0-5" H₂O through 0-5,000 psi

Available Options

- ± 0.1% FSO Static Accuracy
- ± 0.5% FSO Thermal Error Band
- Low Power

Alternate Materials Available
for > 15 psi Range



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EXD Series Pressure Transmitter



0-5 inwc through 0-5K psid

Product Specifications

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)
Short Circuit Protected	Up to 40 Vdc

Mechanical

Pressure Ranges	
Range A:	0-5" inwc through 0-30 psi
Range B:	0-30 through 0-200 psid
Range C:	0-300 through 0-1K psid
Range D:	0-2K through 0-5K psid
	<i>(Customer may specify any range/eng. unit)</i>
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 SST
Non-Wetted Parts	316L SST plus electrical connector
Pressure Port*	1/4" NPT (Female)*
Electrical Connector	1/2" NPT (Male) conduit cable exit with 24" cable*
Dimensions	per outline O-EXD-001
Weight	18 oz. nominal

Certifications

CSA/CUS Explosion Proof Class I Div 1 Groups A, B, C, D
 CSA/CUS Explosion Proof Class I Div 2 Groups A, B, C, D
 Master Contract Number: 229278
 Certificate Number: 1658325

Performance

Static Accuracy	± 0.25% FSO* (BFSL, RSS)
	<i>(Combined effects of non-linearity, hysteresis & repeatability)</i>
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
	<i>(Combined effects of Zero & FSO with reference at 70° F)</i>
Mounting Effects	Zero shifts up to 1" H ₂ 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

*Options Available

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		Tinned Wire
EXD3	4-20 mAdc 2 wire	Red		Black		Green

Dylux Corporation reserves the right to change specifications without prior notification. Please contact the factory for the latest revision.

Data Sheet EXD-07 Rev B