

EXD Series

Explosion Proof Differential Transmitter

Dylix[®]
Corporation

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.

Alternate materials for service in corrosive environments

For corrosive environments where 316L is not the material of choice, the EXD is available in Hasteloy C276, C22 or Inconel 718.

Dylix's Customer Service

Each EXD transmitter is shipped within 3-4 weeks ARO with a NIST traceable calibration certificate.

Analog or Switching Output



Wet/Wet

Alternate Materials Available

Standard Features

*Hermetically Sealed Package
±0.25% FSO Static Accuracy
0-5" H₂O through 0-5,000 psi
Low Cost; Starting @ \$725.00*

Available Options

*±0.1% FSO Static Accuracy
±0.5% FSO Thermal Error Band
Hasteloy or Inconel alt. materials
Low power*



Dylix Corporation
347 Lang Blvd.
Grand Island, NY 14072 USA

*Design & Manufacture of
Pressure Instruments*

www.dylixcorp.com
P 716.773.2985
F 716.773.2786

EXD Series Pressure Transmitter



0-5" H2O through 0-5K psid
Low Cost Explosion Proof Process Transmitter

Product Specifications

Electrical

Excitation	
EXD1	2-15 Vdc
EXD2 & EXD3	8-38 Vdc*
EXD4	10-30 Vdc
Output	
EXD1	1-2 mV/V*
EXD2	0-5 Vdc*
EXD3	4-20 mAdc
EXD4	DPDT Switch (1A @ 60 Vdc)
Zero Balance	≤1% FSO
FSO Setting	≤1% FSO
Resolution	Infinite (0.001% FSO usable)
Response Time	
EXD1	< 50mS
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 and EXD3)
Short Circuit Protected	Up to 40 Vdc

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)
<small>(combined effects of non-linearity, hysteresis & repeatability)</small>	
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
<small>(combined effects of Zero & FSO with reference at 70 °F)</small>	
Mounting Effects	Zero shifts up to 1" H2O depending on orientation
Long Term Stability	±0.25% FSO per year

Standard Wiring:

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

Mechanical

Pressure Ranges	
Range a:0-5" H2O 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 0-5 k psid	
<small>(Customer may specify any range/eng. unit FOC)</small>	
Line Pressure	
Range a:1,000 psi	
Range b:1,000 psi	
Range c:3,000 psi	
Range d:5,000 psi	
Proof Pressure	
Range a:1000 psi	
All other:3X Full Scale either side	
<small>(7k psi max)*</small>	
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 & 15-5 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

Environmental

Compensated Temp Range	0 to 170 °F
Operating Temp Range	-20 to +200 °F
Storage Temp Range	-40 to +250 °F

*Options Available

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

Data Sheet EXD-07 Rev A