

DP Series

Differential Pressure Transmitter



High-line Differential Pressure Measurement

Designed for many markets/applications

Dylix's DP Series differential pressure transmitter is designed for End Users and OEM 's where ruggedness, high performance, and reliability are required at a competitive price. This product is modular and is configurable to meet our customers exact needs.

Manufactured for extended life cycle

Every DP 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 elevated line pressure.

Entirely welded 316L SST pressure cavities

The DP Series pressure ports all welded 316 SST '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

2-3 Week delivery on standard or custom products.

Up to 7,500 psi line pressure



All Hasteloy or Inconel wetted parts available

Standard Features

- $\leq \pm 0.5\%$ FSO Static Accuracy
- NEMA 4X Packaging
- $\leq \pm 0.25\%$ FSO/YR Stability

Available Options

- $\leq \pm 0.25\%$ or 0.1% FSO Static Accuracy
- Zero/Span Controls with Cal
- 20X Overpressure Protection

Shown with optional mini-DIN 43650

DP Series Pressure Transmitter



0-30 psi through 0-5k psi
High Line Pressure-"O'-Ring Free design

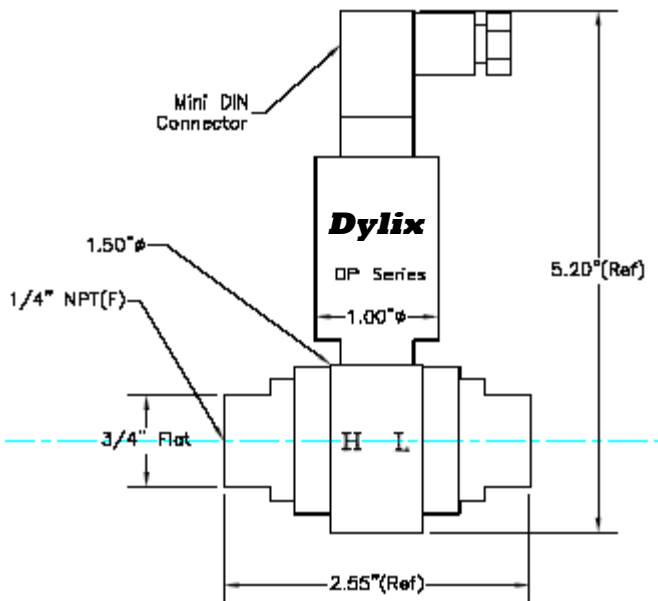
Product Specifications

Electrical

Excitation	
DP1	2-15 Vdc
DP2 & DP3	8-38 Vdc*
Output	
DP1	1-2 mV/V*
DP2	0-5 Vdc*
DP3	4-20 mAdc
Zero Balance	$\leq \pm 1\%$ FSO
FSO Setting	$\leq \pm 1\%$ FSO
Resolution	Infinite ($\leq \pm .001\%$ FSO usable)
Response Time	
DP1	< 30 mS
DP2 & DP3	< 50 mS
Insulation Resistance	1000 M Ω @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 20 mS
Power Supply Effect	$\leq \pm .002\%$ FSO per V input (DP2 & DP3)
EMI/RFI	Internal Filtering (DP2 & DP3)
Short Circuit Protected	Up to 40 Vdc (DP2 & DP3)

Mechanical

Pressure Ranges	
Range a:	0-30 through 0-200 psid
Range b:	0-300 through 0-1k psid
Range c:	0-2k through 0-5 k psid
(Customer may specify any range/eng. unit FOC)	
Line Pressure	
Range a:	1,000 psi
Range b:	3,000 psi
Range c:	7,000 psi
Proof Pressure	3X Full Scale either side (7k psi max)*
Burst Pressure	
Range a:	Minimum 5k psi
Range b:	Minimum 10k psi
Range c:	Minimum 12k psi
Materials	
Wetted Parts	316L SST*
Non-wetted Parts	316L SST plus electrical connector
Pressure Port	1/4"-NPT Female*
Electrical Connector	NEMA 4X cable exit (24" cable)* per outline below
Dimensions	
Weight	13 oz



Environmental

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

Performance

Static Accuracy	$\leq \pm 0.5\%$ FSO* (BFSL, RSS)* (combined effects of non-linearity, hysteresis, & repeatability)
Repeatability	$\leq \pm 0.1\%$ FSO
Temperature Effects	$\leq \pm 1.5\%$ FSO over comp range* (combined effects of zero & FSO with reference at 70 °F)
Long Term Stability	$\leq \pm 0.25\%$ FSO per year

*Options Available

Standard Wiring:

Model	Output	+Power	-Power	+ Signal	- Signal
DP1	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
DP2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	+ Sig ref to - Power
DP3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

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

Data Sheet DP-07 Rev A