

# 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 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.

### **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 port's 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**

Includes a NIST traceable calibration certificate.

Up to 6,000 psi line pressure



Shown with optional Mini DIN 43650 C  
(Option Code: B02)

### **Standard Features**

- ≤±0.25% FSO Static Accuracy
- NEMA 4X Packaging
- ≤±0.25% FSO/YR stability

### **Available Options**

- ≤±0.1% FSO Static Accuracy
- Zero & Span Controls
- 20X Overpressure protection
- Hastelloy Wetted Parts

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# DP Series Pressure Transmitter



0-15 through 0-6K psi

High Line Pressure— O-Ring Free design

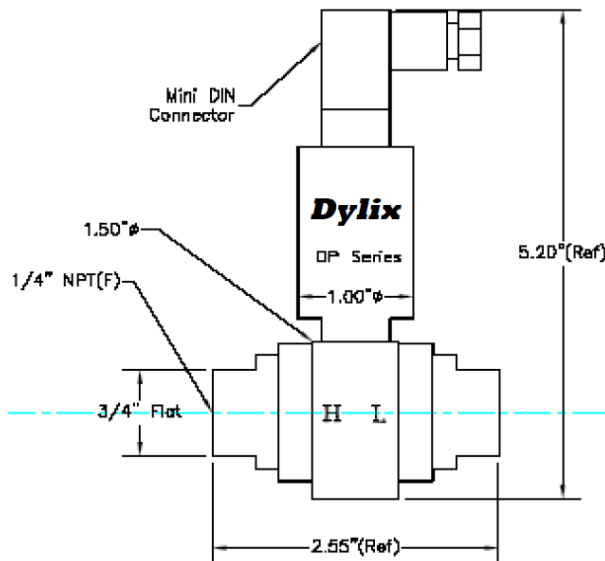
## Product Specifications

### 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	± 1% FSO
FSO Setting	± 1% FSO
Resolution	Infinite (± 0.001% FSO usable)
Response Time	
DP1	< 30 mS
DP2 & DP3	< 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 (DP2 & DP3)
EMI/RFI	Internal Filtering (DP2 & DP3)
Short Circuit Protected	Up to 40 Vdc (DP2 & DP3)

### Mechanical

Pressure Ranges	
Range a:	0-15 through 0-200 psid
Range b:	0-300 through 0-1K psid
Range c:	0-2K through 0-6K psid (Customer may specify any range/eng. unit)
Line Pressure	
Range a:	1,000 psi
Range b:	3,000 psi
Range c:	7,000 psi
Proof Pressure	3X Full Scale Differential (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)*
Dimensions	Per outline below
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	± 0.25% FSO* (BFSL, RSS)* <i>(Combined effects of non-linearity, hysteresis &amp; repeatability)</i>
Repeatability	± 0.1% FSO
Temperature Effects	± 1.5% FSO over comp range* <i>(Combined effects of Zero &amp; FSO with reference at 70° F)</i>
Long Term Stability	± 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	
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 D