

# DPC Series



Differential Pressure Transmitter

## *Low Range/High Proof Differential Pressure Transmitter*

### Designed for High Static/Low DP applications

Dylix's DPC Series differential pressure transmitter is designed for End Users and OEMs where extreme overpressure protection (1,000 psi), 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 DPC 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 DPC 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.

Fast Response



Wet/Wet

Shown with optional

Bendix 4-pin connector

(Option Code: B06)

plus Zero & Span adjustments

(Option Code: D01)

### Standard Features

Ranges from 5 inwc to 50 psi  
1,000 psi overpressure protection  
 $\pm \leq 0.25\%$  FSO/YR stability

### Available Options

$\pm \leq 0.1\%$  FSO Static Accuracy  
Zero & Span Controls  
2,000 psi Overpressure protection  
HART protocol

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

# DPC Series Pressure Transmitter



0-5 inwc through 0-50 psi  
1,000 psi Line & Overpressure Protection

## Product Specifications

### Electrical

Excitation	8-38 Vdc*
Output	
DPC2	0-5 Vdc*
DPC3	4-20 mAdc
Zero Balance	≤± 1% FSO
FSO Setting	≤± 1% FSO
Resolution	Infinite (≤± 0.001% FSO usable)
Response Time	< 10 Ms
Insulation Resistance	1,000 M Ω @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	≤± 0.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc

### Mechanical

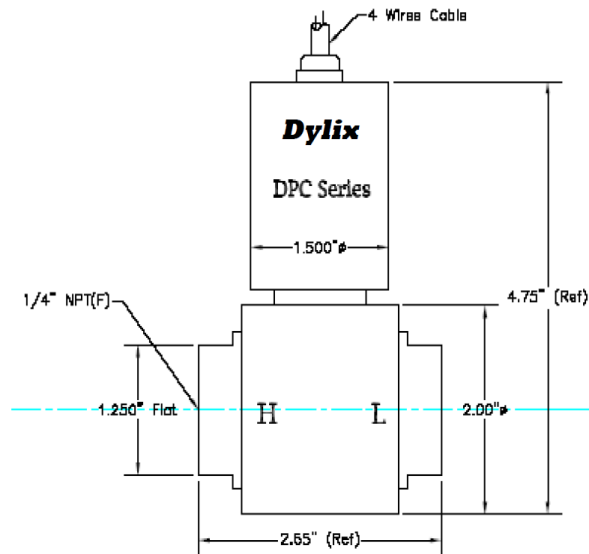
Pressure Ranges	0-5 inwc through 0-50 psi (Customer may specify any range/eng. unit)
Line Pressure	1,000 psi
Proof Pressure	1,000 psi (either port)
Burst Pressure	3,000 psi
Materials	
Wetted Parts	316L SST
Non-wetted Parts	316L SST plus electrical connector
Pressure Port	1/4" NPT (Female)*
Electrical Connector	NEMA 4X cable exit with 24" cable*
Dimensions	Per outline below
Weight	18 oz.

### Environmental

Compensated Temp Range	0 to 170° F
Operating Temp Range	-20 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>
Static Pressure Effect	
On Zero	≤± 0.25% FSO per 1,000 psi
On Span	≤± 0.5% of reading per 1,000 psi
Repeatability	≤± 0.05% FSO
Temperature Effects	≤± 1.5% FSO over comp range <i>(Combined effects of Zero &amp; FSO with reference at 70° F)</i>
Mounting Effects	Zero shifts up to 1" ± H <sub>2</sub> O depending on orientation
Long Term Stability	≤± 0.25% FSO per year



### \*Options Available

### Standard Wiring:

Model	Output	+ Power	- Power	+ Signal	- Signal
DPC2	0-5 (10) Vdc 3 wire	Red/Pin 1/Pin A	Black/Pin 2/Pin B	Green/Pin 3/Pin C	
DPC3	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 DPC-07 Rev B