

DPC Series

Differential Pressure Transmitter



High-Line/Low Differential Pressure Measurement

Designed for High Static/Low DP applications

Dylix's DPC Series differential pressure transmitter is designed for End Users and OEM 's where extreme overpressure protection (1000 psi), 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 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 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

3-4 Week delivery on standard or custom products.

Fast Response

Wet/Wet



Shown with optional connector and adjustments

Standard Features

*Ranges from 5" H₂O
1,000 psi overpressure protection
≤±0.25% FSO/YR Stability*

Available Options

*≤±0.1% FSO Static Accuracy
Zero/Span Controls with Cal
2000 psi Overpressure Protection*

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" H₂O through 0-50 psi
1000 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 (±.001% FSO usable)
Response Time	< 10 mS
Insulation Resistance	1000 MΩ @ 50 Vdc
Reverse Polarity	Protected
Warm-up	< 10 mS
Power Supply Effect	≤±.002% FSO per V input
EMI/RFI	Internal Filtering
Short Circuit Protected	Up to 40 Vdc

Mechanical

Pressure Ranges	0-5" H ₂ O through 0-50 psid (Customer may specify any range/eng. unit FOC)
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*	¼"-NPT Female
Electrical Connector*	NEMA 4X cable exit with 24" cable
Dimensions	per outline below
Weight	18 oz

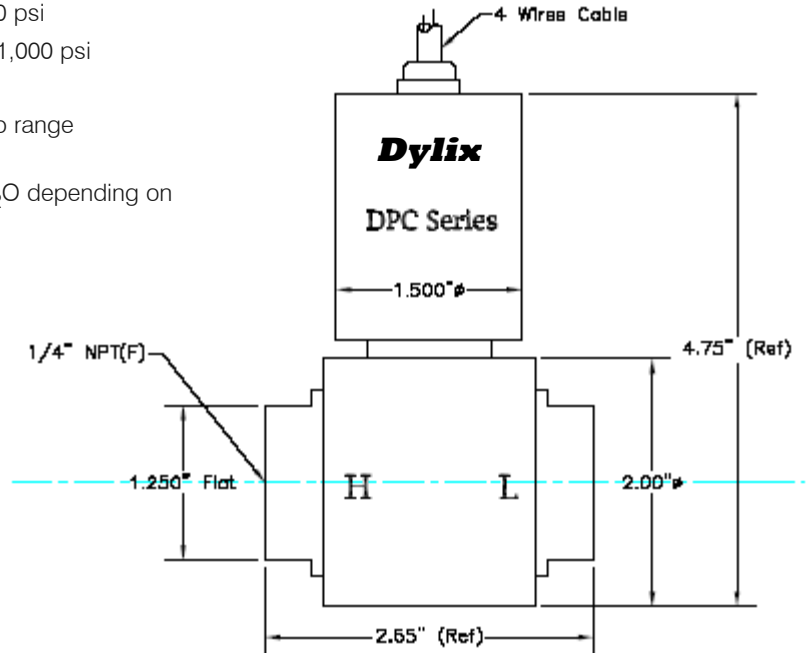
Performance

Static Accuracy	≤±0.25% FSO* (BFSL, RSS) (combined effects of non-linearity, hysteresis & repeatability)
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 (combined effects of Zero & FSO with reference at 70 °F)
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
DPC1	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
DPC2	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
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 A