

# Low Range/High Proof Differential Pressure Transmitter

# **DPC Series**



# Fast Response...Wet/Wet

## **Design & Application**

Dylix's DPC 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.

**Entirely welded 316L SST pressure cavities with no o-rings** make it ideal for high cyclical applications, capillary filled systems or installations requiring a guaranteed leak free system.

### **Manufacturing & Quality**

The DPC Series is built using an advanced modular assembly process that allows high customization and short delivery times.

Our modern CNC machining conters oncurs symmetry between the HI

Our modern CNC machining centers 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 pressures.

# **Dylix's Customer Service**

Each DPC unit is delivered with a NIST traceable calibration certificate. Annual re-calibration and repair/refurbishment services are available.

## **Standard Features**

- ≤±0.25% FSO Static Accuracy
- · ≤±0.25% FSO/YR stability

# **Optional Features**

- ≤±0.1% FSO Static Accuracy
- · Zero & Span Controls
- 20x Overpressure protection
- HART protocol (with 4-20 mA version)

Contact Dylix Sales for Other Custom Applications... sales@dylixcorp.com • 716.773.2985

# **Specifications: DPC Series**

# **Differential Pressure Transmitter**

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

Baseline Configuration Specs Represented. Modifications Encouraged - See Below Custom Designs Available

#### **Electrical**

**Excitation** 9-36 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 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 (either port)

**Materials** 

Wetted Parts 316L ss

Non-wetted Parts 316L ss plus electrical connector

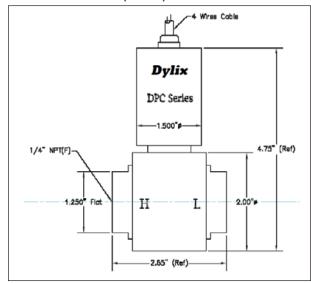
Pressure Port ¼" NPT (Female)\*

Electrical Connector mini DIN\*

Dimensions Per Drawing

Weight 18 oz

#### **Product Dimensions (inches)**



#### **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"  $\pm$  H<sub>2</sub>O depending

on orientation

Long Term Stability ≤± 0.25% FSO per year

#### **Environmental**

Compensated Temp Range0° to 170° FOperating Temp Range-20° to 200° FStorage Temp Range-40° to 250° F

## **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	Black/Pin 2/Pin B
DPC3	4-20 mAdc 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

\*Options Available

#### **Modifications and Warranty**

MODIFICATIONS: Transducer/Transmitter applications vary greatly. As such our designs are flexible. Choices such as pressure ports, electrical termination, material compatibility, and performance are a few of the many options available. Specifications on this datasheet represent standard configuration only. Product and company names that may be listed are trademarks of their respective companies. Any and all specifications subject to change without notice.

WARRANTY: Dylix Corporation warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Dylix Corporation's obligation shall be limited to correcting any defective material, FOB our factory. No allowance will be made for any expenses incurred for correcting any deriview workmanship and/or material without written consent by Dylix Corporation. This warranty is in lieu of all other warranties expressed or implied.



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