DPL Series

Differential Pressure Transmitter

Dylix® Corporation

Low Range/High Proof Differential Pressure Transmitter with Process Housing & Flanges

Designed using variable capacitance technology

Dylix's DPL Series is a high static/low differential pressure transmitter based on proven capacitance sensing technology. Key feature of the sensing element is its isolation from induced stress, which improves performance and long term stability over elevated line pressures.

Manufactured for extended life cycle

Reliability and stability are manufactured into every device using advanced manufacturing techniques. Extended burn in and thermal cycling are just a few extra steps Dylix utilizes to ensure performance over time.

316L SST standard material of construction

The DPL comes standard with 316L SST sensing diaphragms and process flanges to handle the most aggressive fluids.

Dylix's Customer Service

Every DPL Series is shipped with a NIST traceable calibration certificate.

Variable Capacitance Technology

Shown with standard Display

Standard Features

±≤ 0.2% FSO Static Accuracy
316L SST diaphragms & flanges
±≤ 0.25% FSO/YR Stability
HART Protocol

Available Options

±≤ 0.1% FSO Static Accuracy
1/2" NPT Pressure Ports

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Design & Manufacture of Pressure Instruments

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DPL Series Pressure Transmitter

0-5 through 0-750 inwc

2,000 psi Line Pressure

Dylix® Corporation

Product Specifications

Electrical

Power Supply	12-45 Vdc with no load
Output	4-20 mAdc linear
Zero & Span Adjust	Continuous
Warm-up	2 seconds max (with minimum damping)
Power Supply Effect	Less than +/- 0.005% of span/volt input change
Load Effect	No effect except power across transmitter
EMI/RFI	Less than +/- 0.1% FSO; 20 to 1,000 MHz; @ 30 V/m
Short Circuit Protected	

Pressure Ranges

Standard Ranges (STR)	0-5 inwc, 150 inwc, 750 inwc
Range ability	6:1 max (from URL)
Maximum Static Pressure	2,000 psi
Overpressure Protection	2,000 psi without changing Calibration
Burst Pressure	8,700 psi

Performance

Static Accuracy	+/- 0.2% of calibrated span
Base Pressure Effect	
On Zero	+/- 0.25% FSO of standard range per 2,000 psi
On Span	+/- 0.5% of reading for 0-30 inwc
	+/- 0.25% if rdg per 1,000 psi; 0-150 inwc & 750 inwc
Temperature Effect	+/- 2.5% FSO Total Error Band for 0-30 inwc
	+/- 1.5% FSO Total Error Band; 0-150 inwc & 750 inwc
Vibration Effect	0.05% FSO per g to 200 Hz in any axis
Mounting Effect	Zero shifts up to 1 inwc depending on orientation
Stability	+/- 0.2% FSO per annum

Supplied

Mounting bracket with 2" Pipe Mount

Mechanical

Materials	
Wetted Parts	
Diaphragms	316L SST
Process Flanges	316L SST
O-Rings	Viton
Non-wetted Parts	
Bolts	Plated carbon steel
Electrical Housing	Low-copper aluminum
Paint	Polyurethane
Cover O-Ring	Buna-N
Fill Fluid	Silicone Oil
Process Connections	1/4-18 NPT (Female)
Port centers	2 1/8"
Flange adapters included	
Drain/vent	Side of process flange
Electrical Connector	1/2-14 NPT (Female) w/ screw terminals
Weight	Approximately 6.5 lbs

Environmental

Temperature Limits Operating	
Electronics	-40 to +200º F
Sensing Element	-40 to +220º F
Temperature Limits Storage	-60 to +250º F
Humidity	0-100% relative humidity
Volumetric Displacement	Less than 0.01 in^3

***Options Available**

Standard Wiring:

Model	Output	+ Power	- Power	+ Signal	- Signal
DPL3	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 D