

Low Range/High Proof Differential Pressure Transmitter

DPL Series



With Process Housing & Flanges

Design & Application

Dylix's DPL Series is a high static/low differential pressure transmitter based on proven capacitance sensing technology. The DPL comes standard with 316L SST sensing diaphragms and process flanges to handle the most aggressive fluids.

Key feature of the sensing element is its isolation from induced stress, improving its performance and long term stability over elevated line pressures.

Manufacturing & Quality

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.

Dylix's Customer Service

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

Standard Features

- $\pm 0.1\%$ FSO Static Accuracy
- 316L ss diaphragms & flanges
- $\pm 0.25\%$ FSO/YR Stability
- HART Protocol

Optional Features

- $\frac{1}{2}$ " NPT Pressure Ports

**Contact Dylix Sales for
Other Custom Applications...**
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Specifications: DPL Series

Pressure Transmitter

0-5 through 0-750 inwc. 12,000 psi Line Pressure

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

Electrical

Power Supply Output	12-45 Vdc with no load
DPL3	4-20 mA _{dc}
Zero & Span Adjust	Continuous
Warm-up	2 seconds max (with minimum damping)
Power Supply Effect	<±0.005% of span/volt input change
Load Effect	No effect except power across transmitter
EMI/RFI	<±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

Mechanical

Materials

Wetted Parts	
Diaphragms	316L ss
Process Flanges	316L ss
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	¼-18 NPT (Female)
Port centers	2½"
	Flange adapters included
Drain/vent	Side of process flange
Electrical Connector	½-14 NPT (Female)
Weight	Approximately 6.5 lbs

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

Environmental

Temperature Limits Operating	
Electronics	-40° to 200° F
Sensing Element	-40° to 220° F
Temperature Limits Storage	-60° to 250° F
Humidity	0-100% relative humidity
Volumetric Displacement	<0.01 in ³

Standard Wiring

Model	Output	+ Power	- Power	+ Signal	- Signal
DPL3	4-20 mA _{dc} 2 wire	Red/Pin 1/Pin A		Black/Pin 2/Pin B	

Supplied

Mounting bracket with 2" Pipe Mount

**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: Dylux 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 Dylux 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 defective workmanship and/or material without written consent by Dylux Corporation. This warranty is in lieu of all other warranties expressed or implied.

*Due to the nature of technology, changes are inevitable.
For latest technical specifications, see our website.*



A US Designer and Manufacturer of
Pressure Transducers & Transmitters

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