



Differential Transmitter

DP/EL Series



- $\pm 0.5\%$ accuracy
- Full Scale Ranges from 20"WC to 400"WC
- Zero-based or Compound Ranges available
- 4-20 mA, 2 wire output
- Stainless Steel housing with 10' cable

The PMC Low Pressure Differential Pressure Transmitter (DP/EL) is designed to measure the pressure drop across a line of filter elements. The DP/EL provides a PMC flush-mount diaphragm on the positive pressure side and a $\frac{1}{8}$ " NPT access port for the reference pressure side. The DP/EL is a Wet/Dry style transmitter. To prevent the contamination of the pressure sensing element, no liquids may enter the low pressure port. This transmitter is ideally suited for Bag House filter and Dust Collector applications as well as any Wet/Dry, low pressure differential measurement. Contact the factory for solutions to higher range and/or high line pressure applications.

*FM & CSA approved for use in hazardous locations, Class I,II,III, Division1, Groups A,B,C,D,E,F, & G rated.

STANDARD SPECIFICATIONS

Ranges (zero based)

0 to 20"WC (50 mbar) through 0 to 400"WC (1 bar)
 Ranges are adjustable to exactly match the application
 Contact factory for higher pressure application

Compound (compound)

-10 to +10"WC (-25 to +25 mbar) through -160" to 400"WC (-0.4 to +1 bar). Ranges are adjustable to exactly match the application

Accuracy

± 0.5% of full span, including the effects of linearity, hysteresis, and repeatability

Zero Offset

± 5% FSO potentiometer adjustment

Span Setting

± 15% FSO potentiometer adjustment

Operating Temperature Range

-4° F to 175° F (-20°C to 80°C)

Temperature Effects

Thermal zero shift: ± 0.0075% /°C

Thermal span shift:

± 0.005% /°C for ranges < 6 psi

± 0.003% /°C for ranges 6 psi and above

Electrical

2-wire 4-20mA output, 15 to 40 VDC power supply

Overpressure

10 times full range pressure. Note: Reference pressure side must always be kept equal to or less than the pressure on the positive pressure side.

Construction

316L SS for all wetted parts and housing, ceramic diaphragm for high wear applications

Cable

10' of vented polyurethane cable is standard, Teflon FEP cable is optional for improved chemical resistance. Can be configured with additional cable upon request.

Installation

Furnished with 2" Ladish Tri-Clamp sanitary connection

PMC adopts a continuous development program which sometimes necessitates specification changes without notice.

ORDERING INFORMATION

DP/EL Series Differential Transmitter

When ordering please specify the following:

MODEL PMC - DP/EL	
Range	Specify psi, "WC, bar, absolute, gauge, etc.
Diaphragm	
Cer	Ceramic
Termination	
CV/P	Polyurethane Cable
CV/T	Teflon FEP Cable

(1) Select (2) Specify (3) Select (4) Select

Order Code Example: PMC-DP/EL-100"WC-Cer-CV/P

(1) Model: PMC-DP/EL

(2) Range: 100"WC

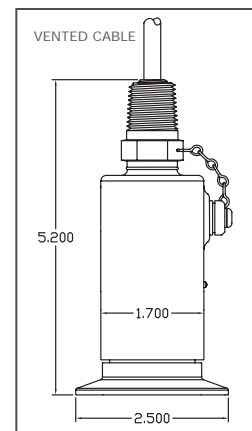
(3) Diaphragm Material: Ceramic

(4) Termination: Stainless Steel Cover with 10' Polyurethane Cable

OPTIONS

PMC offers a wide range of options, accessories, and variants for the Differential Pressure Transmitter DP/EL Series including the cable options listed above and alternative process connections.

Contact PMC for other options and accessories



All measurements shown in inches

HEAD OFFICE



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