



## Miniature Electronic Transmitter Pressure, Level, and Vacuum

*MIN PT/EL CV Series*



- $\pm 0.25\%$  FS Accuracy
- Ranges 10"WC-300psig, Vacuum & Absolute
- Small 1" Sensing Area
- FMc Approved\*
- Polyurethane or Teflon FEP cable



**PMC Miniature Electronic Pressure Transmitters** accurately measure pressure, level, and vacuum in processes where clogging of the diaphragm face is a particular concern. The small, 1" diameter of the transmitter allows installation flush with the inside wall of pipes 2" in diameter and larger. This feature eliminates the usual pocketing problems encountered with conventional flange-mounted and recessed-diaphragm transmitters. PMC incorporates a high-precision ceramic capacitive pressure sensor to ensure accuracy and durability. This type of sensor is ideally suited for high-wear applications. The process pressure is converted to a standard 2-wire 4-20mA output. **The MIN-PT/EL Series** of transmitters provides overpressure protection of up to 10 times the full scale range. The CV configuration allows customers to specify custom lengths of cable to be supplied with the transmitter. A choice of vented Polyurethane or Teflon FEP cable is available. Teflon FEP cable offers improved chemical resistance for more demanding applications.

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

***Pneumatically Operated Transmitters Also Available***

*Precision Solutions for pressure, level, vacuum and humidity measurement*

## STANDARD SPECIFICATIONS

### Full Scale Ranges

- 0 - 10"WC to 0 - 300 psi gauge
- ± 10"WC to ± 400"WC Compound
- 0 - 3"Hg to 0 - 30"Hg Vacuum
- 0 - 15 psi to 0 - 150 psi absolute

Ranges below 40"WC, absolute ranges, and/or compound ranges available with ceramic diaphragm only

### Static Accuracy

- ± 0.25% of Full Scale
- Combined non-linearity, hysteresis, and repeatability

### Overpressure

- 10X for Full Scale Ranges up to 15 psi
- 4X for Full Scale Ranges from 15 to 150 psi
- 2X for Full Scale Ranges over 150 psi

### Compensated Temperature Range

- Ceramic Diaphragm: -4°F to 175°F (-20°C to 80°C)
- Other Diaphragms: 14°F to 175°F (-10°C to 80°C)

### Operating Temperature Range

- Ambient: -4°F to 175°F (-20°C to 80°C)
- Process: -4°F to 250°F (-20°C to 125°C)

### Temperature Effects

- Ceramic Diaphragm:
- Thermal Zero Shift: ±0.010%/°C
- Thermal Span Shift:
- ± 0.005%/°C for ranges < 6 psi
- ± 0.003%/°C for ranges 6 psi and above
- Other Diaphragm Materials:
- Temperature Error Band for 14°F to 175°F (-10°C to 80°C) is typically better than ±1.5% (TEB) for ranges greater than 6 psi and ±3.0% for ranges < 6 psi
- Refer to Factory for more information*

### Electrical

- Output: 2-wire, 4-20 mA
- Supply Voltage: 10 to 35 VDC nominal supply

### Zero Setting

- ± 5% FS, potentiometer adjustment

### Span Setting

- ± 15% FS, potentiometer adjustment

### Cable

- CV/P - 10' Polyurethane
- CV/T - 10' Teflon FEP

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

## ORDERING INFORMATION

### MIN PT/EL CV Series Miniature Electronic Transmitter Pressure, Level, and Vacuum

When ordering please specify the following:

MODEL PMC - MIN-PT/EL	
SAN	SAN
	Standard version
Range	Specify psi, " WC, bar, absolute, gauge, etc.
Diaphragm	
Hc	Hastelloy C
Ta	Tantalum
Cer	Ceramic
Termination	
CV/P	Polyurethane cable
CV/T	Teflon FEP cable

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

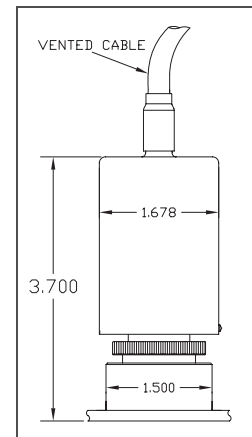
#### Order Code Example: PMC-MIN-PT/EL-SAN-100psig-Hc-CV/P

- (1) Model: PMC-MIN-PT/EL-SAN
- (2) Range: 100 psi gauge
- (3) Diaphragm Material: Hastelloy C
- (4) Electrical Termination: SS Cover 10' Polyurethane Cable

## OPTIONS

- Remote Electronics
- Terminal Head
- LCD Display
- Submersible Versions
- Process Connections  
SAN, Flush-Mount, Tri-Clamp, Flange and Threaded Process Connections available

Contact PMC for other options and accessories



All measurements shown in inches

Represented By:

HEAD OFFICE



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