



## Electronic Transmitter Pressure, Level, and Vacuum

*PT/EL CV Series*



- $\pm 0.25\%$  FS Accuracy
- Ranges 5"WC-300 psig, Vacuum & Absolute
- 4-20 mA, 2-wire output
- FMc Approved\*
- Polyurethane or Teflon FEP cable



**PMC Electronic Pressure Transmitters** accurately measure pressure, level, and vacuum in processes where clogging of the diaphragm face is a particular concern. The small, 1½" diameter of the transmitter allows installation flush with the inside wall of pipes 3" 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 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 – 5"WC to 0 – 300 psi gauge  
 ± 5"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 100 psi  
 4X for Full Scale Ranges over 100 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: -40°F to 175°F (-40°C to 80°C)  
 Process: -40°F to 250°F (-40°C to 125°C)

### Temperature Effects

Ceramic Diaphragm:  
 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  
 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

### 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

## ORDERING INFORMATION

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

When ordering please specify the following:

MODEL PMC - PT/EL	
SAN	SAN version
DR	Double Ring 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

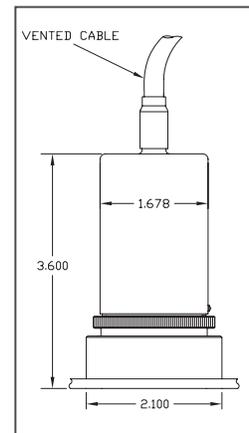
### Order Code Example: PMC-PT/EL-SAN-100psig-Hc-CV/P

- (1) Model: PMC-PT/EL-SAN
- (2) Range: 100 psi gauge
- (3) Diaphragm Material: Hastelloy C
- (4) Electrical Termination: SS cover with 10' of 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

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

HEAD OFFICE



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