



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
- FM and CSA Approved*, 3A Sanitary
- 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.

3A Sanitary version (MIN-PT/EL SAN) provides your choice of certified sanitary process connections including weld-on nipple, NPT threaded nipple, or Tri-Clamp. **The Standard version (MIN-PT/EL)** provides your choice of process connections including weld-on nipple, or NPT threaded nipple. See the Process Connections Data sheet for a detailed list and description of options.

*FM & CSA 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

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

-4°F to 175°F (-20°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

Thermal Zero Shift: ±0.010%/°C
 Thermal Span Shift: ± 0.004%/°C

Electrical

Output: 2-wire, 4-20 mA
 Supply Voltage: 24 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	Sanitary
	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

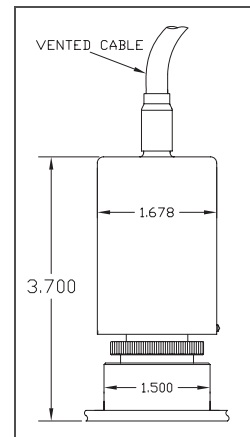
Order Code Example: PMC-MIN-PT/EL-SAN-100psig-Hc-CV/P

- (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
 Sanitary, Flush-Mount, Tri-Clamp, Flange and Threaded Process Connections available

Contact PMC for other options and accessories



All measurements shown in inches

HEAD OFFICE



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