



Miniature Electronic Transmitter Pressure, Level, and Vacuum

MIN PT/EL TH Series



- Nema 4X Anodized Alum. Terminal Head
- $\pm 0.25\%$ FS Accuracy
- Ranges 10"WC-300 psig, Vacuum & Absolute
- Small 1" Sensing Area
- FM and CSA Approved*, 3A Sanitary



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 Nema 4X rated, Anodized Aluminum Terminal Junction Head provides a flexible solution for connection to the transmitter and can be configured with a Local LCD Display. Access to the terminal strip is provided through a convenient latched, flip-up top. Cables enter the Terminal Junction Head via a 1/2" NPT threaded port. The optional 1/2" Nylon Gland Nut provides a liquid-tight cord connection.

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 (MIN-PT/EL) version 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

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

Housing

Nema 4X, EMI / RFI protected,
 Anodized Aluminum Construction

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

HEAD OFFICE



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ORDERING INFORMATION

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

When ordering please specify the following:

MODEL PMC - MIN PT/EL	
SAN	Sanitary version
	Standard version
Range	Specify psi, " WC, bar, absolute, gauge, etc.
Diaphragm	
Hc	Hastelloy C
Ta	Tantalum
Cer	Ceramic
Termination	
TH	Terminal Head
TH/D	Adds LCD Display

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

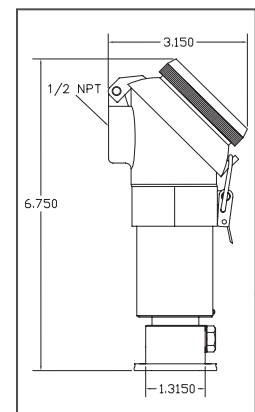
Order Code Example: PMC-MIN-PT/EL-30"WC-Cer-TH/D

- (1) Model: PMC-MIN-PT/EL-SAN
- (2) Range: 30" WC
- (3) Diaphragm Material: Ceramic
- (4) Electrical Termination: Anodized Aluminum Terminal Head

OPTIONS

- Remote Electronics
- Gland Nut Cable Connections
- 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

Represented By: