



## Miniature Electronic Transmitter Pressure, Level, and Vacuum

*MIN PT/EL TH/SS Series*



- Nema 4X Stainless Steel Terminal Head
- $\pm 0.25\%$  FS Accuracy
- Ranges 10"WC-300 psig, Vacuum & Absolute
- Small 1" Sensing Area
- FMc Approved\*



**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, providing a 2-wire 4-20 mA output. 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 PT/EL Series of transmitters** provides overpressure protection of up to 10 times the full scale range. The Nema 4X rated, Stainless Steel Terminal Junction Head provides a corrosion resistant and flexible solution for connection to the transmitter and can be configured with a Local LCD Display. Access to the terminal strip is provided through the threaded and O-ring sealed 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.

\*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*  
 Temperature Error Band for 14°F to 175°F (-10°C to

### 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,  
 Stainless Steel 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/SS Series

## Miniature Electronic Pressure, Level, and Vacuum Transmitters

When ordering please specify the following:

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

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

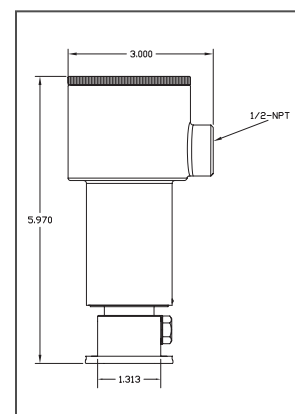
### Order Code Example: PMC-MIN-PT/EL-100psig-Ta-TH-SS

- (1) Model: PMC-MIN-PT/EL
- (2) Range: 100 psi gauge
- (3) Diaphragm Material: Tantalum
- (4) Electrical Termination: Stainless Steel Terminal Head

## OPTIONS

- Remote Electronics
- Gland Nut Cable Connections
- 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: