



Smart Miniature Electronic Transmitter Pressure, Level, and Vacuum

SMT/MIN-EL CV Series



- Remote Configuration using HART® Protocol
- $\pm 0.25\%$ FS Accuracy
- Ranges 10"WC-300 psig, Vacuum & Absolute
- Small 1" Sensing Area
- 3A Sanitary available

PMC Smart Miniature Electronic Pressure Transmitters (SMT/MIN-EL) combine state-of-the-art temperature compensated capacitive sensor technology with microprocessor-based electronics to provide remote digital communications using a HART® protocol communicator. Using the HART communicator, the transmitter can easily and remotely be configured for specific ranges, calibrated, and tested. The transmitter provides a 2-wire 4-20mA output.

The SMT/MIN-EL 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. The high precision capacitive ceramic sensor is ideally suited for high-wear applications.

The SMT PT/EL Series of transmitters offers 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 (SMT/MIN-EL SAN) provides your choice of certified sanitary process connections including weld-on nipple, NPT threaded nipple, or Tri-Clamp. **The Standard version (SMT/MIN-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.

Pneumatically Operated Transmitters Also Available

STANDARD SPECIFICATIONS

■ HART® Communications

Configuration, Calibration, and Test using HART compatible communicator

■ 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
 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

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

ORDERING INFORMATION

SMT/MIN-EL CV Series

Smart Miniature Electronic Transmitter

Pressure, Level, and Vacuum

When ordering please specify the following:

MODEL PMC - SMT/MIN-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

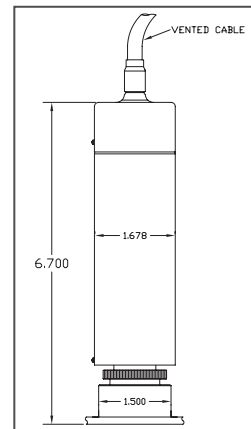
Order Code Example: PMC-SMT/MIN-EL-SAN-100psig-Hc-CV/P

- (1) Model: PMC-SMT/MIN-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



Process Measurement & Controls, Inc.

11 Old Sugar Hollow Road
 Danbury, CT 06810 U.S.A.
 Tel: 203-792-8686
 Fax: 203-743-2051
 Email: sales@pmc1.com
www.pmc1.com

Represented By: