

Sigma Controls, Inc.

PROCESS CONTROLS AND INSTRUMENTATION



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SIGMA SERIES 9000PT/N4 MICROPROCESSOR BASED INDICATING PRESSURE TRANSMITTER

FEATURES



- Nema 7 or Nema 4X Enclosure
- Microprocessor Electronics
- Accuracy $\pm 0.1\%$ Total Errors
- All 316SS Wetted Parts
- Analog 4/20MA and/or Digital Output (MVNET or MODBUS®) or ASCII
- Wide Selection of Ranges
- Local Digital Display .5" High, 4 Digit LCD with User Programmability
- 1/2" NPT (F) Connection
- 'On Board' Surge Protection
- Up to 128 Units on a Single Cable Data Highway
- 19.2K BAUD Data Transmission
- NEMA 4/7 Explosion Proof Enclosure with Viewing Window

DESCRIPTION

The Sigma Controls Model 9000PT pressure transmitter is a state of the art, microprocessor based instrument with industry standard 4/20MA two-wire output and digital output for remote communication.

Both pressure and temperature information is available in digital mode which includes MVNET, and MODBUS® RTU. ASCII is available for pressure only.

Utilizing a state of the art media isolated silicon strain gauge and microprocessor signal conditioning, the 9000PT offers a broad range of features and benefits.

The integral large (0.5") alpha-numeric display provides local indication of pressure or loop current and is fully user programmable for specific application needs.

Utilizing lease line, dial up and spread spectrum radio modems, the 9000PT functions as a standalone RTU in a SCADA system and via the integral MVNET data communications can seamlessly integrate with Sigma Controls 'MYRIAD' series of pump controllers or 'INFILINK' PC based remote monitoring software.

ENGINEERING FEATURES

- Solid State Microprocessor Design
 - Long Term Stability
 - Excellent Performance $\pm 0.1\%$ Total Error
 - 316SS Wetted Parts Explosion Proof N4 Enclosure
 - Integral Terminal Block
 - Fully Temperature Compensated 0-50° C
 - 4/20MA Analog and/or Digital Outputs Standard. MVNET, ASCII, MODBUS® RTU (ASCII Output excludes Temperature Data)
 - Digitally Compatible with all Sigma 'MYRIAD' Level and Pump Controllers
- ®MODBUS is a registered mark of Schneider Electric.

VISIT OUR WEBSITE : SIGMACONTROLS.COM

900PT031406

SIGMA SERIES 9000PT/N4 MICROPROCESSOR BASED INDICATING PRESSURE TRANSMITTER

SPECIFICATIONS

Ranges:

Ft Water; 0/12, 0/35, 0/70,
0/115, 0/160, 0/350 (Custom
calibration at no charge.)

Pressure (PSIG):

5, 15, 30, 50, 100, 300, other
ranges available, consult factory.

Thermal Limits:

Maximum Operating:
-40° C/85° C (-40° F/185° F)

Compensated: 0° C/50° C

(-32° F/122° F)

Temperature Effects:

± 0.25% output span
within compensated range.

Accuracy:

= ± 0.1%

Input:

15-45 VDC

Output:

4/20MA
4/20MA & MVNET
4/20MA & ASCII
4/20MA & MODBUS

Electrical Connection:

Integral compression screw
Terminal block

Cable Color Code:

Black (-) 24VDC
Blue Digital Output 'B'
Yellow Digital Output 'A'
Red (+) 24 VDC

Process Connection:

½" NPT (F) 316SS

Materials of Construction:

316SS body, Buna N 'O' Ring,
Neoprene Grommet, 316SS
Diaphragm, Aluminum
Enclosure

Electrical Connections:

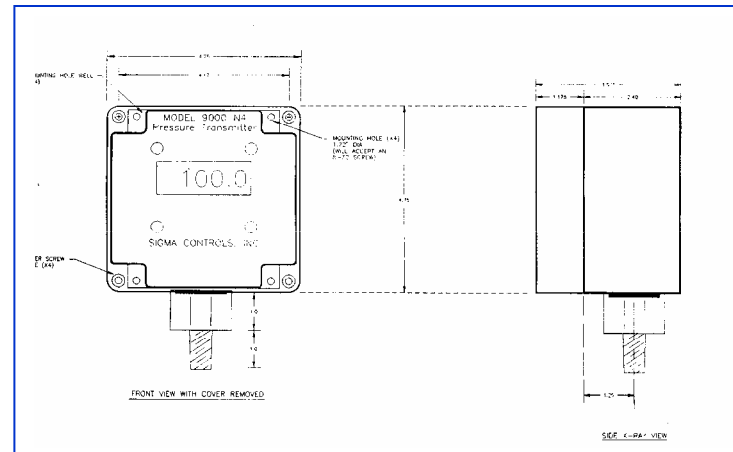
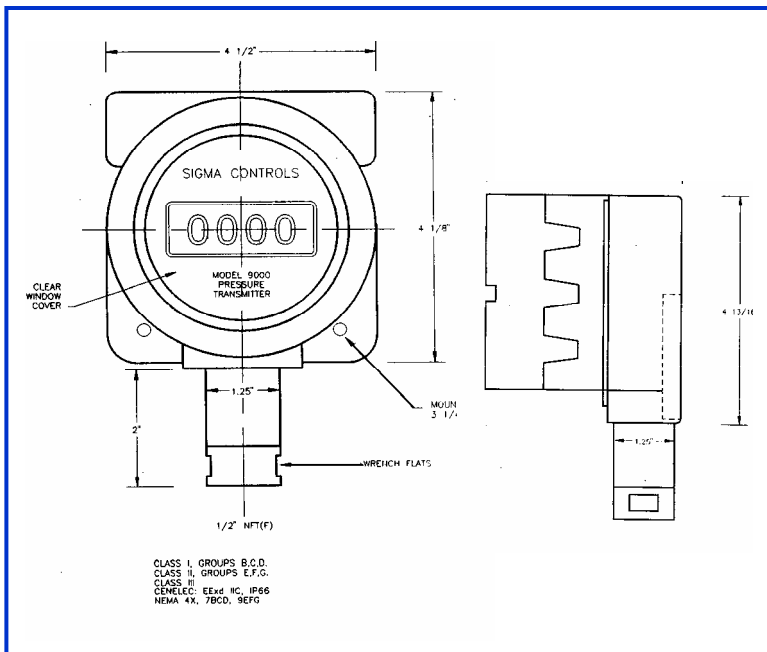
½" NPT (F)

Local Indication:

4 Digit LCD 0.5" high,
fully user programmable
for zero span, decimal point,
engineering unit.

Housings:

Cast Aluminum	Nema 7
ABS	Nema 4X



MODEL: 9000PT-A-B-MB/TVSS

9000PT Pressure Transmitter

A = Range: 005, 015, 030, 100, 300 PSI

B = Input/Output:

- 4/20MA (1)
- 4/20MA and MVNET..... (2)
- 4/20MA and ASCII(3)
- 4/20MA and MODBUS.....(4)

C = Options: Mounting BracketMB
Transient SuppressorTVSS

D = Housing: Aluminum.....N7
ABS.....N4X

EXAMPLE: 9000PT-100-1-MB-N7