



**SIGMA SERIES 9000LT
 MICROPROCESSOR BASED INDICATING LEVEL TRANSMITTER**

	<p align="center">FEATURES</p> <ul style="list-style-type: none"> • 316SS Submersible Probe • Microprocessor Electronics • Accuracy $\pm 0.1\%$ Total Errors • Analog 4/20MA and/or Digital Output (MODBUS® RTU RS485) • 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
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DESCRIPTION

The Sigma Controls Model 9000LT level 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 level and temperature information is available in digital mode which includes MODBUS® RTU RS485. ASCII is available for pressure only.

Utilizing a state of the art 316SS submersible level sensor and remote mounted microprocessor signal conditioner, the 9000LT offers a broad range of features and benefits.

Two styles of level sensors are available; the 1" diameter 8000 for clean liquids and the large diaphragm 6100 for sludge and slurry applications.

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 9000LT functions as a standalone RTU in a SCADA system and via the integral MODBUS® RS485 data communications can seamlessly integrate with Sigma Controls 'MYRIAD' series of pump controllers or 'INFILINK' PC based remote monitoring software.

ENGINEERING FEATURES

- Submersible Sensor
 - 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. MODBUS® RTU RS485 Digitally Compatible with all Sigma 'MYRIAD' Level and Pump Controllers
- ®MODBUS is a registered mark of Schneider Electric.

**SIGMA SERIES 9000LT
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/Output:

15-45 VDC/4-20MADC/Digital

Electrical Connection:

Integral compression screw
Terminal block

Cable:

Heavy Wall Polyurethane

Cable Color Code:

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

Materials of Construction:

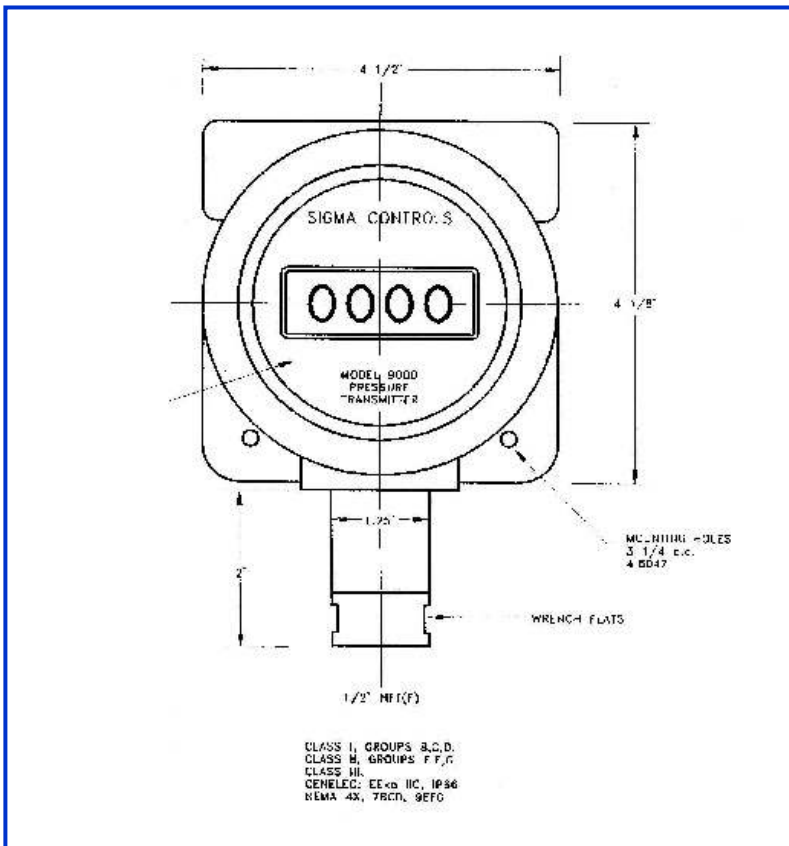
316SS body, Buna N 'O'
Ring,
Neoprene Grommet, 316SS
Diaphragm, Aluminum
Enclosure

Electrical Connections:

½" NPT (F)

Local Indication:

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



MODEL: 9000LT-A-B

9000LT Pressure Transmitter

A = 8000 or 6100 Series Sensor

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

C = Input/Output: 4/20MA..... (1)
4/20MA and MODBUS..... (2)

D = Cable Length in Feet

E = Options: Mounting BracketMB
Transient Suppressor
.....TVSS

EXAMPLE: 9000LT-8000-015-1-MB/TVSS