

SERIES 7000MP PVC MICROPROCESSOR BASED LEVEL TRANSMITTER



FEATURES

- Σ **Small 1.25" Diameter**
- Σ **Analog/Digital Output**
- Σ **Ultra Stable/High 0.2% Accuracy**
- Σ **Non Metallic PVC Construction**
- Σ **Active Temperature Compensation**
- Σ **Integral Surge Protection**
- Σ **No Vent Tubes or Desiccants**
- Σ **Fully Repairable**
- Σ **RS485 MODBUS® Outputs**
- Σ **Field Calibrateable**

Sigma Controls, Inc. introduces a new era of accuracy to its time proven Series 7000MP nonmetallic submersible level transmitter. Utilizing a state of the art Piezo resistive media isolated sensor and active temperature compensated microprocessor based electronics, the 7000MP offers significant accuracy and stability gains over more traditional analog designs.

Industry standard 4/20MA output is common to all units as is a variety of digital data outputs including MODBUS®, which includes temperature data along with level measurement.

Digital data transmission offers the ability to link or 'daisy chain' up to 256 transmitters on a single cable 'run' over a distance of up to

4000 feet, offering significant cable and installation cost savings.

Sigma's RS485 MODBUS® protocol is digitally compatible with all Myriad monitors and control devices and permits the direct connection of the transmitter to our spread spectrum radio modem for long distance transmission of level signals without the need for an RTU.

APPLICATIONS

CHEMICAL TANK LEVEL

CHEMICAL DRUMS

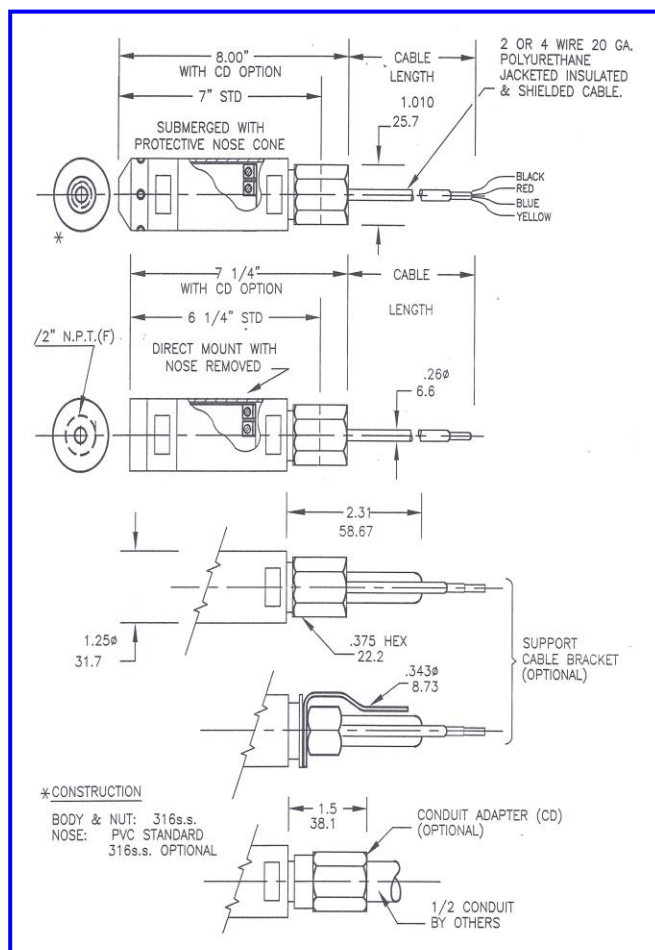
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PRODUCT SPECIFICATIONS

Ranges	Ft. Water: 0/5, 0/12, 0/16, 0/35, 0/115, 0/160, (Custom calibration at no charge.)
Pressure (PSIG)	2, 5, 7, 15, 30, 50, 70, 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	= ± 0.2% FS.
Input/Output	7.8 – 36 VDC/4-20MADC/Digital
Electrical Connection	Attached four wire 20GA direct burial polyurethane jacketed shielded cable.
Cable Color Code	Black (-) Red (+) Power Blue Digital Output 'B' Yellow Digital Output 'A'
Process Connection	Protective nose cone for direct submergence in liquids. Removing nose cone provides 1/2" NPT (F) process connection.
Materials of Construction	PVC body, Viton 'O' Ring, Viton Diaphragm Polyurethane jacketed cable
Weight	(without cable) 8 oz.

DIMENSIONS



ORDERING INFORMATION

MODEL	7000MP = PVC Body
RANGES	002 = 0/2 PSIG = 0/5 FT WC 005 = 0/5 PSIG = 0/12 FT WC 007 = 0/7 PSIG = 0/23 FT WC 015 = 0/15 PSIG = 0/40 FT WC 030 = 0/30 PSIG = 0/70 FT WC 050 = 0/50 PSIG = 0/115 FT WC 070 = 0/70 PSIG = 0/160 FT WC 120 = 0/12 PSIG = 0/276 FT WC Higher ranges available, consult factory.
OUTPUT	1 = 4/20MA 2 = 4/20MA and MODBUS®
MATLS OF CONST	PVC Body, Viton 'O' Rings, Viton Diaphragm
FILL LIQUID	DS = Silicone 200 Fill Liquid
OPTIONS	CD = 1/2" Conduit Adapter AC = TVSS 120VAC Surge Protection DIN MT DC = TVSS 4/20MA Surge Protection DIN MT
CABLE LENGTH	Specify Length in Feet
EXAMPLE	7000MP-030-1-DS- 50

7000MP 100223