

Sigma Controls, Inc.

PROCESS CONTROLS AND INSTRUMENTATION

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SERIES 6000MP MICROPROCESSOR BASED LEVEL TRANSMITTER



FEATURES

- Σ **Small 1.25 Diameter**
- Σ **Analog/Digital Output**
- Σ **Ultra Stable/High 0.2% Accuracy**
- Σ **316SS Construction**
- Σ **Active Temperature Compensation**
- Σ **No Vent Tubes or Desiccants**
- Σ **Fully Repairable**
- Σ **4/20MA and RS485 MODBUS® Outputs**
- Σ **Field Calibrateable**

Sigma Controls, Inc. introduces a new era of accuracy to its time proven Series 6000MP submersible level transmitter. Utilizing a state of the art Piezo resistive media isolated sensor, and active temperature compensated microprocessor based electronics, the 6000MP offers significant accuracy and stability gains over more traditional analog designs.

The industry standard 4/20MA output is common to all units, as is a variety of digital data outputs, including RS485 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.

The MODBUS® digital output is 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 and RTU.

APPLICATIONS

- Σ **Well Level Monitoring**
- Σ **Clear Well Levels**
- Σ **Pond and Dam Depth**
- Σ **Cooling Towers**
- Σ **Reservoir Level**
- Σ **Ground Water Studies**
- Σ **Ocean Water Levels**
- Σ **Tank Level**
- Σ **Standpipe Levels**

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PRODUCT SPECIFICATIONS

Ranges	Ft. Water: 0/6, 0/12, 0/25, 0/40, 0/115, 0/230, 0/692 (Custom calibration at no charge.)
Pressure (PSIG)	1, 3, 5, 10, 15, 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% terminal based.
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 (+) 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	316SS body, Buna N 'O' Ring, Neoprene Grommet, 316SS diaphragm, polyurethane jacketed cable.
Weight	(without cable) 8 oz.

ORDERING INFORMATION

MODEL	6000MP = SS Body
RANGES	003 = 0/3 PSIG = 0/6 FT WC 005 = 0/5 PSIG = 0/12 FT WC 010 = 0/10 PSIG = 0/25 FT WC 015 = 0/15 PSIG = 0/40 FT WC 050 = 0/50 PSIG = 0/115 FT WC 100 = 0/100 PSIG = 0/230 FT WC 300 = 0/300 PSIG = 0/692 FT WC
OUTPUT	1 = 4/20MA and MODBUS®
MATLS OF CONST	6 = 316SS Body & **Diaphragm, Buna N 'O' Rings, 316SS Nose 3 = 316SS Body, Diaphragm, Buna N 'O' Rings, PVC Nose Buna N 'O' Rings DM = Direct Mount
FILL LIQUID	DS = Silicone 200 Fill Liquid
OPTIONS	SB = Cable Support Bracket CD – 1/2" Conduit Adapter AC = TVSS 120VAC Surge Protection DIN MT DC = TVSS 4/20MA Surge Protection DIN MT WC = Stainless Steel Support Cable (Please Specify)
CABLE LENGTH	Specify Length in Feet
EXAMPLE	6000MP-015-1-6-DS-SB-50

DIMENSIONS

