Sigma Controls, Inc. PROCESS CONTROLS AND INSTRUMENTATION



217 S. Fifth Street, Perkasie, PA 18944 PH: 215-257-3412 FAX: 215-257-3416

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

VISIT OUR WEBSITE AT SIGMACONTROLS.COM

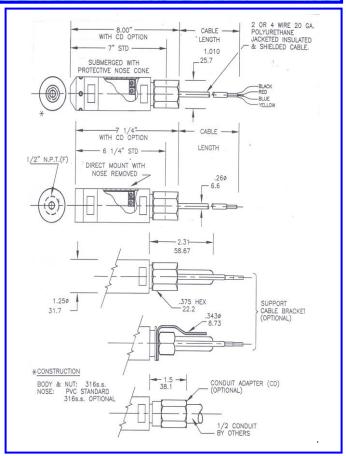
SERIES 6000MP MICROPROCESSOR BASED LEVEL TRANSMITTER

| 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 (<u>+</u> 32°F/122°F |
| Temperature Effects | ±0.25% output span within compensated range. |
| Accuracy | $= \pm 0.1\%$ 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

DIMENSIONS

| 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 |





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