

SERIES 5000MP SMALL BORE MICROPROCESSOR BASED SMALL PROFILE SUBMERSIBLE LEVEL TRANSDUCER



FEATURES

- Σ **Ultra Small Diameter .690 Inch**
- Σ **New Smaller Profile**
- Σ **Length is 5.5" O.A.**
- Σ **Two Wire 4/20MA and/or Digital Output**
- Σ **Active Temperature Compensation**
- Σ **316SS Construction**
- Σ **.25% Full Scale Accuracy**
- Σ **Solid State Piezo Sensor**
- Σ **No Vent Tubes**
- Σ **Fully Repairable**
- Σ **RS485 MODBUS® Output**
- Σ **Field Calibration now Available with Sigma Controls "CALMATE" Kit**

DESCRIPTION

Sigma Controls Series 5000MP level transmitters have been specifically designed for level monitoring in commercial and municipal water wells where space is limited.

The solid state Piezo-resistive sensing element is enclosed in an ultra small 0.69" diameter 316SS body isolated from the process media with a 316SS diaphragm.

Microprocessor based electronics with active temperature compensation provide unsurpassed performance and an industry standard 4/20MA two-wire output and the option of RS485 MODBUS® output. Digital data transmission offers the ability to link or 'daisy chain' up to 128 transmitters on a single cable 'run' over a distance of up to 4000 feet offering significant cable and installation cost savings.

Sigma's digital protocol is compatible with all Myriad monitors and control devices and permits direct connection of the transmitter to our spread spectrum

radio modem for long distance transmission of level signals without the need for an RTU.

The submersible cable is 20 gauge direct burial polyurethane jacket shielded type and is available in unspliced lengths up to 2000 feet. A high integrity waterproof seal at the entrance of the cable to the body provides protection for the internal electronics.

RANGES AVAILABLE

0-100 PSI	0-230 FT. H2O
0-150 PSI	0-400 FT. H2O
0-300 PSI	0-600 FT. H2O

VISIT OUR WEBSITE AT SIGMACONTROLS.COM

SMALL PROFILE SUBMERSIBLE LEVEL TRANSDUCER

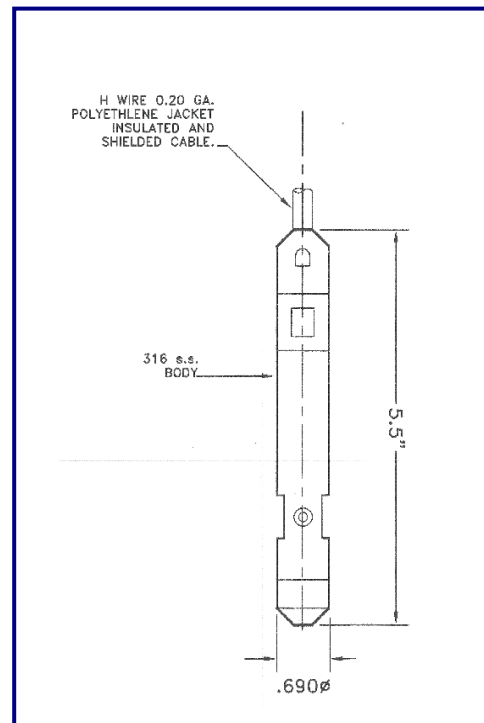
PRODUCT SPECIFICATIONS

Ranges	Ft. Water: 0/230, 0/400, 0/600, (Custom calibration at no charge.)
Pressure	100, 150, 300. Other ranges available, consult factory.
Thermal Limits	Maximum Operating: -40°C/120C (-40°F/248°F)
Compensated	0°C/50°C (-32F/122°F)
Temperature Effects	±0.25% output span within compensated range
Accuracy	= ± 0.1%
Input/Output	15-45 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 Connections	Protective Nose Cone for direct submergence in liquids
Materials of Construction	316SS body, Viton 'O' Ring, Neoprene Grommet, 316SS diaphragm, Polyurethane jacketed cable
Weight	(without cable) 8 oz.

ORDERING INFORMATION

MODEL	5000MP = 316 SS BODY
RANGES	100 = 0/100 = 0/230 FT WC 150 = 0/150 = 0/400 FT WC 300 = 0/300 = 0/600 FT WC HIGHER RANGES AVAILABLE* *CONSULT FACTORY
OUTPUT	1 = 4/20MA AND MODBUS®
MATLS OF CONST	316SS BODY, 316SS OR TCP DIAPHRAGM VITON 'O' RINGS
FILL LIQUID	DS = SILICONE 200 FILL LIQUID
OPTIONS	SK = CABLE SUPPORT BRACKET AC = TVSS 120VAC SURGE PROTECTION DC = TVSS 4/20MA SURGE PROTECTION WC = STAINLESS STEEL SUPPORT CABLE* *PLEASE SPECIFY
CABLE LENGTH	SPECIFY LENGTH IN FEET
EXAMPLE	5000MP-100-1-DS-SK-150

DIMENSIONS



OPTIONAL LEVEL METER FOR SERIES 5000MP

STANDARD FEATURES



- Σ Microprocessor Based
- Σ Graphic LCD Display'
- Σ 5 Function Keys
- Σ 20 Point Linearization
- Σ Isolated 24VDC Sensor Power
- Σ 4/20MA, 1-5V, 0-5V, 0-10VDC Input
- Σ 1 Analog Input, 1 Analog Output
- Σ 2 Digital Outputs, Optically Isolated
- Σ Fully User Programmable in English
- Σ 'Pop Up' Alarm Screens



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