



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



**FEATURES**

- Ultra Small Diameter .690 Inch
- Two Wire 4/20MA and/or Digital Output
- Active Temperature Compensation
- 316SS Construction
- .5% Full Scale Accuracy
- Solid State Piezo Sensor
- No Vent Tubes
- Fully Repairable
- RS485 MODBUS® Output

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**

0-30 PSI	0-70 FT. H20
0-50 PSI	0-115 FT. H20
0-100 PSI	0-230 FT. H20
0-150 PSI	0-400 FT H20
0-300 PSI	0-600 FT H20

Consult factory for other ranges.

**VISIT OUR WEBSITE AT  
SIGMACONTROLS.COM**

## SPECIFICATIONS

**Ranges:**

Ft. Water: 0/70, 0/115, 0/230, 0/600  
(Custom calibration at no charge).

**Pressure (PSIG):**

30, 50, 100, 150, 300, other ranges available, consult factory.

**Thermal Limits:**

Maximum Operating:  
-40°C/120°C (-40°F/248°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:**

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:**

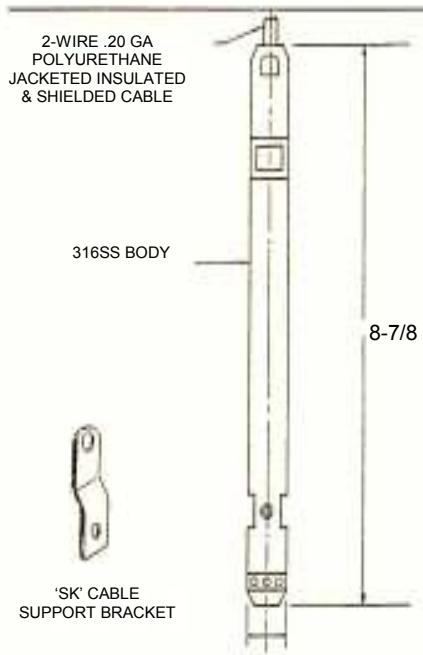
Protective Nose Cone for direct submergence in liquids.

**Materials of Construction:**

316SS body, Viton 'O' Ring, Neoprene Grommet, 316SS diaphragm Polyurethane jacketed cable.

**Weight:** (without cable)  
8 oz.

## DIMENSIONS &amp; OPTIONS



MODEL	RANGE	I/O	BODY MATL	FILL	OPTIONS	CABLE LENGTH
5000MP	*	*	*	*	*	SPECIFY

**MODEL**  
5000MP = 316 SS BODY

**RANGES**

030 = 0/30 = 0/70 FT WC  
050 = 0/50 = 0/115 FT WC  
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  
2 = 4/20MA and MODBUS™

**MATERIALS OF CONSTRUCTION**  
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-030-1-3-DS-SK(50)**

## OPTIONAL LEVEL METER FOR SERIES 5000MP

**STANDARD FEATURES**

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