

Mottech Submersible Liquid Level Sensor



Mottech Submersible Liquid Level Sensor is with stainless steel isolation diaphragm diffusion silicon pressure core body, the pressure core body adopts the process of laser trimming resistor for a wide temperature range of zero and sensitivity temperature compensation.

Special cable for air-venting conduit and waterproof technology ensures water tightness, and ventilation between inside and outside, so as to acquire accurate and stable measuring data.

The Mottech Submersible Liquid Level Sensor can be connected directly to any controller in Mottech's system via Analog input or Mottech Smart Card.

Features and Benefits

High accuracy, high sensitivity



Fast response



Good stability



Strong resistance to interference



Strong resistance to interference



Anti-corrosion material optional



Low temperature drift



Wide Temperature Range Compensation



Applications



Agriculture irrigation



Petroleum



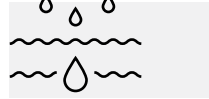
Chemical



Power generation plant



Urban water drainage



Hydrographic survey



Environmental protection



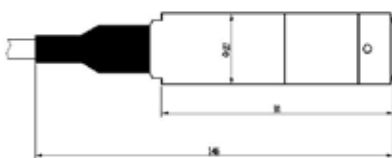
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Technical specification

Item	Technical specifications
Range	Standard: 0-10m, optional: 0~0.5...200m H ₂ O or 0 ~ 5KPa...2MPa
Output	4-20mA, 0-5V, 0-10V, RS485
Supply Voltage	10-30VDC, 24V typ.
Over Pressure	2×FS
Measuring Medium	The liquid(not sticky) compatible with 316 stainless steel
Total Accuracy	0.1%FS, 0.3%FS(0.25%FS), 0.5%FS
Long-term Stability	0.1%FS/year typ., 0.2%FS/year max.
Ingress Protection	IP68
Operating Temperature	-40°C~ +80°C
Compensating Temperature	-10°C~ 70°C
Temperature Drifting	0.03%FS/°C typ., 0.05%FS/°C
Cycle Life	1*10 ⁸ @25°C
Main Material	Sensor: 316L, housing: 304SS(316L is optional)
Cable	Outer material: PUR, Atmospheric pressure compensation cable, Polymer waterproof plug at cable end
Cable Length	Standard cable length: 20m. Can be ordered in other lengths
Power Consumption	Current output: (U*0.02)W, Voltage output: (U*0.008)W, Digital output: (U*0.015)W
Load Capacity	Current output:≤(U-7)/0.02Ω, Voltage output:≥100kΩ
Weight(probe unpacked)	Approx. 230g
Storage Condition	10°C-50°C@20%-90%RH
Code	M.SENS-71-A

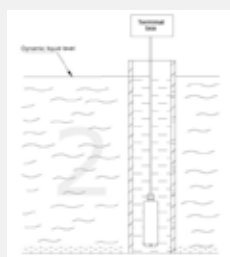
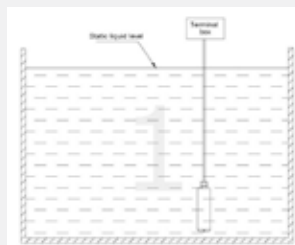
Dimensions

Unit: mm



The default diameter is 27 mm. 19 mm or 13 mm external diameter is customizable.

Mounting



- As shown in picture 1, when the sensor is installed in static water such as in pools, water towers, probe is immersed into the bottom and should be as far as possible away from the pump or valves. The terminal box should keep above water surface and prevent water penetrating into cables. Please make sure the airway not be blocked.
- As shown in picture 2, when the sensor is installed in dynamic water such as dams or rivers, probe should be inserted into a steel pipe (inner diameter is around 45mm), burrowing several holes at different height on the pipe side wall which is opposite to the water flow direction. The terminal box should keep above water surface and prevent water penetrating into cables. Please make sure the airway not be blocked.