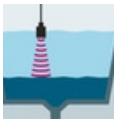
PT IoT Kreasi Indonesia

SILT LEVEL SENSOR

Ultrasonic sludge interface meter, also known as ultrasonic silt level meter, is a contact-type, high-reliability, easy-to-install and maintain solid-liquid interface monitoring instrument. The maximum measurement distance is 5 meters to 50 meters. It is suitable for occasions that need to monitor the solid-liquid interface, such as: the measurement of the sludge interface of the primary sedimentation tank, the secondary sedimentation tank, and the sludge concentration tank of the sewage treatment plant; the mud level measurement of the sedimentation tank of the waterworks, etc.

Benefits:



Remote sludge level detection

Can set threshold for prevention of sludge build-up

Protection

1. Has an interference echo cancellation function to obtain accurate measurement results
2. Built-in temperature component
3. The ultrasonic sensor adopts acoustic matching technology, so that its transmission power can be radiated more effectively, and the signal strength can be improved, so as to realize accurate measurement

Sensor implementations:

WATER TREATMENT

INDUSTRIAL WASTEWATER

INDUSTRIAL PROCESSES

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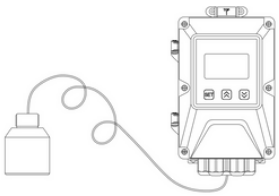
IOT KREASI INDONESIA

ULTRASONIC SILT LEVEL SENSOR



The sludge interface meter uses the echo signal of the ultrasonic pulse to propagate in the liquid to measure the sludge interface value and obtains the height and thickness of the sludge layer by calculating the time when the ultrasonic wave returns to the sensor.

It is suitable for occasions that need to monitor the solid-liquid interface, such as: the measurement of the sludge interface of the primary sedimentation tank, the secondary sedimentation tank, and the sludge concentration tank of the sewage treatment plant; the mud level measurement of the sedimentation tank of the waterworks, etc.

Technical Data

PARAMETERS	ULTRASONIC SILT LEVEL SENSOR
Measuring range	5m, 10m, 20m (Special ranges needs to be customized)
Measurement accuracy	±1.0% (Full scale)
Resolution	5mm or 0.5% (Whichever is larger)
Display	LCD Display
Analog output	4mA to 20mA, 510Ω load
Relays	Standard 2-way
Voltage	24V DC ±10% 100V to 240V (AC)
Ambient temperature	-20°C ... +60°C
Operating temperature	Transmitter: -20°C ... +60°C Sensor: -20°C ... +80°C
Communication	Standard RS-485 (manufacturer agreement)
Protection rating	Transmitter: IP66 Sensor: IP68

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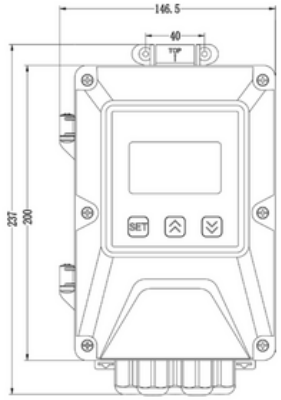
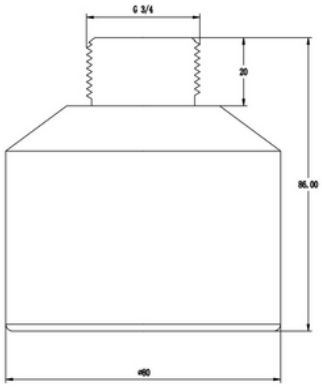
PARAMETERS	ULTRASONIC WATER LEVEL
Sensor material	POM, stainless steel, PTFE
Sensor Installation	Standar bracket
Sensor Cable	Standard 10 meters, up to 100 meters
Product power consumption	**12V/24V DC Power supply:** • No relay output, power consumption is about 2.7W • 1 relay output, power consumption about 3.6W • 2 relay outputs, power consumption is about 4.1W • 3-way relay, power consumption is about 4.6W • 4 relay outputs, power sonsumption about 5.1W
	220V AC Power suppply, power sonsumption approximately 4.6W

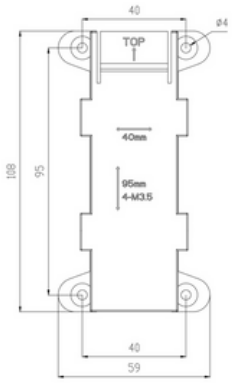
Product and Size



Transmitter



5m, 10m Measuring Range



Dimensional drawing of wall hanging fixture

Product Characteristic Parameters

Sensor	Blind Spot	Ultrasonic	Launch	Minimum
5m liquid	0.35m_	300 KHz	3.6 °	0.30 m
10m liquid	0.35m_	300 KHz	3.6 °	0.62 m
20m liquid	0.60m_	200 Khz	7.5 °	2.60 m

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