Online Ultrasonic Liquid Level Meter

T6085

Function

The Ultrasonic Liquid Level sensor can be used to continuously and accurately determine the Liquid Level. Stable data, reliable performance; built-in self-diagnosis function to ensure accurate data; simple installation and calibration.

Typical Use

The online Ultrasonic Liquid Level is an online analytical instrument designed to measure the Liquid Level of water from waterworks, municipal pipeline network, industrial process water quality monitoring, circulating cooling water, activated carbon filter effluent, membrane filtration effluent, etc. especially in the treatment of municipal sewage or industrial wastewater. Whether evaluating activated sludge and the entire biological treatment process, analyzing wastewater discharged after purification treatment, or detecting sludge concentration at different stages, the Ultrasonic Liquid Level meter can give continuous and accurate measurement results.
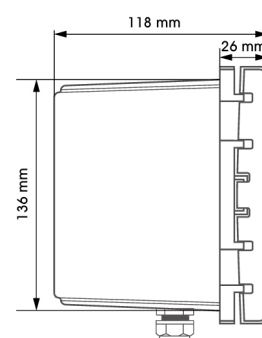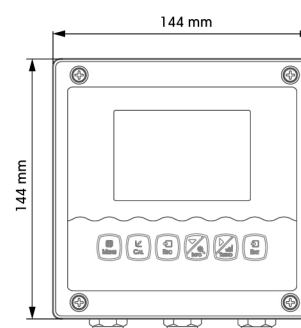
Mains Supply

85~265VAC±10%,50±1Hz,power consumption ≤3W;

9~36VDC,power consumption:≤3W;

## Measuring Range

Liquid Level: 0~5m, 0~10m, 0~20m

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Features

1. Large display, standard 485 communication, with online and offline alarm, 144*144*118mm meter size, 138*138 hole size, 4.3 inch large screen display.

2. The data curve recording function is installed, the machine replaces the manual meter reading, and the query range is arbitrarily specified, so that the data is no longer lost.

3. Real-time online recording of liquid level, temperature data and curves, compatible with all water quality meters of our company.

4. 0-5m, 0-10m, 0~20m, a variety of measuring ranges are available, suitable for different working conditions, the measurement accuracy is less than ±5% of the measured value.

5. The new choke inductance of the power board can effectively reduce the influence of electromagnetic interference, and the data is more stable.

6. The design of the whole machine is waterproof and dustproof, and the back cover of the connection terminal is added to extend the service life in harsh environments.

7. Panel/wall/pipe installation, three options are available to meet various industrial site installation requirements.
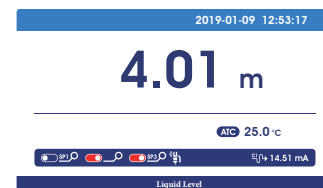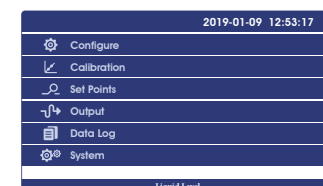

Measurement mode
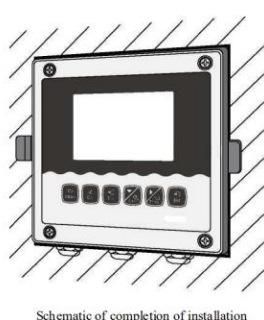

Calibration mode
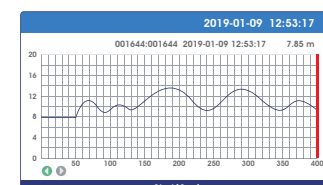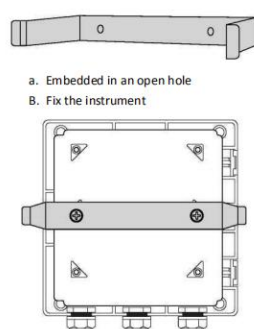

Trend chart

Setting mode

Electrical connections

Electrical connection The connection between the instrument and the sensor: the power supply, output signal, relay alarm contact and the connection between the sensor and the instrument are all inside the instrument. The length of the lead wire for the fixed electrode is usually 5-10 meters, and the corresponding label or color on the sensor Insert the wire into the corresponding terminal inside the instrument and tighten it.
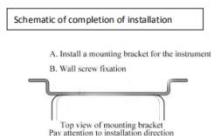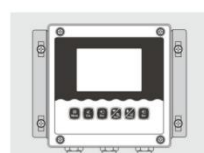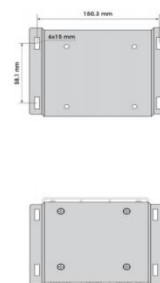
Instrument installation method

Embedded installation   Wall mount

Technical Specifications

Measurement range	0~5m, 0~10m, 0~20m (Optional)
Measurement unit	m
Resolution	0.01m
Basic error	±1%F.S
Temperature	0~50°C
Temperature Resolution	0.1°C
Temperature Basic error	±0.3°C
Current outputs	Two 4~20mA,20~4mA,0~20mA
Signal output	RS485 MODBUS RTU
Other functions	Data record &Curve display
Three relay control contacts	5A 250VAC,5A 30VDC
Optional power supply	85~265VAC,9~36VDC,power consumption≤3W
Working conditions	No strong magnetic field interference around except the geomagnetic field.
Working temperature	-10~60°C
Relative humidity	≤90%
Waterproof rating	IP65
Weight	0.8kg
Dimensions	144×144×118mm
Installation opening size	138×138mm
Installation methods	Panel & wall mounted or pipeline

CS6085D Digital liquid level Sensor
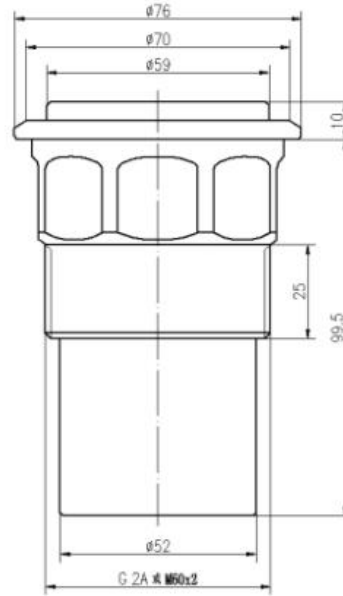
Model NO.	CS6085D
Power/Signal Output	9~36VDC/RS485 MODBUS RTU
Measure methods	Ultrasonic wave
Housing material	PC/PE/PTFE
Waterproof grade	IP68
Measurement range	0-5/0-10/0-20 m (Optional)
Measuring blind zone	＜8/20 cm
Accuracy	＜0.3%
Temperature range	-25-80℃
Cable length	Standard 10m cable
Application	Sewage level, industrial water level, river, well or corrosive liquid level