

MH-Y/YF PLATE MOUNTED/WALL-MOUNTED ULTRA-MUDDY WATER INTERFACE INSTRUMENT



Product Introduction

MH-Y/YF Plate Mounted/Wall-Mounted Ultra-Muddy Water Interface Instrument is our secretary for the sewage treatment process in the sludge interface of continuous on-line monitoring and design. The instrument uses reliable ultrasonic echo detection principle to detect the distance between the sensor probe and the sludge interface and the distance of the ground. The 0-10m sludge thickness change is the control of the detection and related process, so as to optimize the sludge control and dosing control, to prevent deterioration of water, to avoid sludge denitrification and decomposition.

Performance Characteristics

- ★ Reliable ultrasonic echo measurement principle, easy to use.
- ★ Ultrasonic emission energy regulation, able to adapt to a variety of measurement media and a wide range.
- ★ Advanced circuit design and software algorithms that eliminate field interference, stable and accurate measurements.
- ★ Large-screen LCD display measurements can be graphically displayed sludge status.
- ★ Chinese menu, easy to operate.
- ★ Multiple output options.
- ★ Set the upper and lower limits alarm and fault alarm according to the electrical output.
- ★ Exquisite shell with countercurrent block, high flow rate to prevent turbulence and noise.
- ★ **Support SD card data acquisition and serial data download.**

Application Areas

- ☆ Channel survey, underwater topographic survey, underwater positioning, sea (river) measurement and vessel navigation and positioning.
- ☆ Hydrological tests, hydropower plants, reservoir areas and so on.



Performance

Range: 0~10m (At 25°C standard in water, choose different sensors)

Blind zone: <0.5-0.8m (Different from range)

Minimum display resolution: 1mm

Maximum error: $\pm 0.3\%$ FS

Display: Chinese and English large screen LCD, color TFT (Optional)

Operating frequency: 200~2000KHz (Optional)

Field settings: Through the local button to complete

Calibration: Factory calibration, on-site calibration

Output (Optional)

Analog output signal: 0~20mA load $>300\Omega$; 0~50V; 0~10V

Digital output: RS485 (Support Modbus)

Wireless transmission: Built-in GPRS wireless data prompt (Acquisition system can be customized)

Switch output: Two ways NPN/relays (AC:5A 250V / DC:10A 24V)

Powered By

Operating voltage: AC220V or DC12-24V

Power consumption: <3W

Physical Performance

Host Material: ; Sensor: Stainless steel

Host Dimensions: 230mm X 185mm X 120mm X 240mm X 184mm X 110mm

Shell material: Aluminum/ABS engineering plastics; Transducer; Stainless steel

Connection: G1/2

Keyboard: Full keyboard keys

Sensor cable: Shielded cable 10m (Optional length)

Working Principle

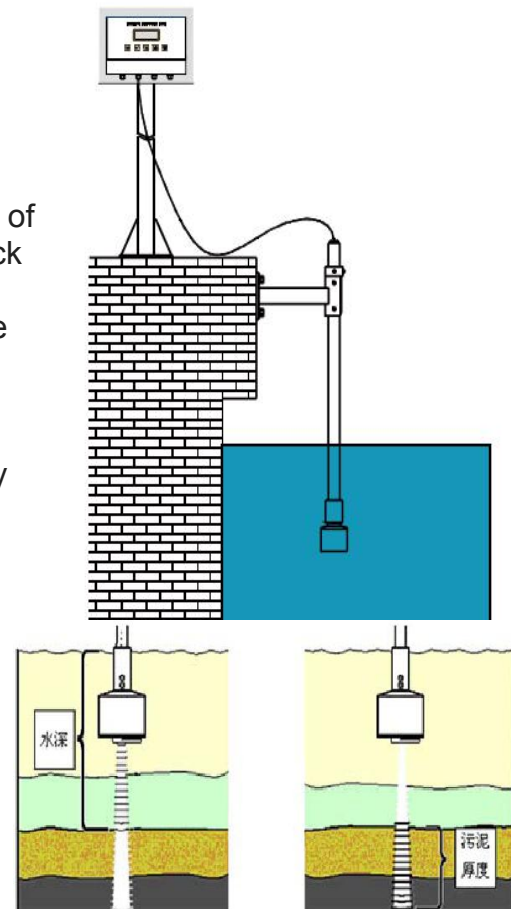
The ultrasonic sensor immersed in the water sends a bunch of ultrasonic waves to the bottom of the water. Ultrasonic waves in the process of downward propagation, after the suspension and precipitation of sludge will be back, and different density of the sludge layer reflected back to the signal is also different. The instrument can detect the depth or thickness of the sludge interface by detecting the intensity and time of the reflected ultrasonic signal and processing it.

Site Installation

The mud interface and the sensor probe must be mounted vertically to the surface.

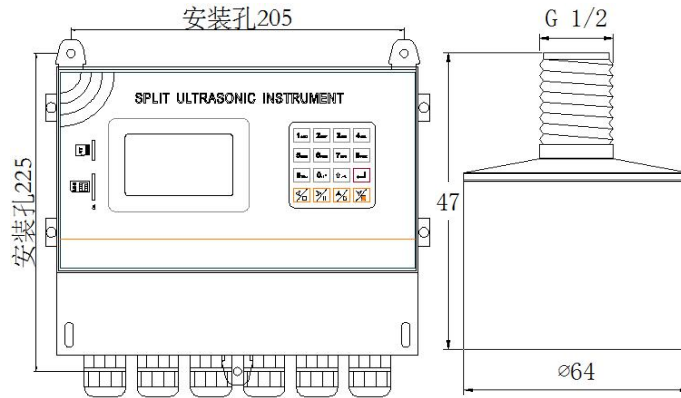
The mud interface meter sensor should have no other solid block between the bottom of the tank, and no interference signal should be generated.

The mud interface meter sensor should avoid the impact of floating objects in the water. If the suspended solids in the water are easy to adhere to the probe surface, it is advisable to install the word clear system to keep the probe surface clean.





Probe submerged depth is recommended for about 20cm, the distance from the wall of the probe at least 30cm.



MH-YS HANDHELD ULTRASONIC SLURRY INTERFACE METER



Product Description

MH-YS Handheld Ultrasonic Mud Interface Instrument is our company for the sewage treatment process in the sludge interface of continuous on-line monitoring, easy to carry the walk to carry the design. The instrument uses a reliable ultrasonic detection principle to detect the distance between the sensor probe and the sludge interface and the distance of the ground. The 0-10m sludge thickness is controlled by the detection and related process control to optimize the sludge control and Dosing control, to prevent deterioration of water, to avoid sludge denitrification and decomposition, optimize the process control process. This product is our company and many years of production experience, learn a variety of similar products advantages, and the development of a handy portable ultrasonic rangefinder instrument. Ultrasonic transceiver conversion circuit using large-scale integrated circuits, component patch rate of 99%, and liquid crystal display test results to ensure that the product's long-term reliability, while its power consumption to a very low. Optional signal output, make up for the traditional hand-held products without output of the product. With accurate measurement, power consumption, high reliability, easy to use, simple operation, accurate measurement speed, easy to carry and so on.

Performance Characteristics

- ★ Reliable ultrasonic echo measurement principle, easy to use.
- ★ Ultrasonic emission energy regulation, able to adapt to a variety of measurement media and a wide range.
- ★ Advanced circuit design and software algorithms that eliminate field interference, stable and accurate measurements.
- ★ Large-screen LCD display measurements can be graphically displayed sludge status
- ★ Multiple output options
- ★ Set the upper and lower limits alarm and fault alarm according to the electrical output
- ★ **Exquisite shell with countercurrent block, high flow rate to prevent turbulence and noise.**
- ★ **Can be a variety of battery-powered (Battery-powered instructions)**
- ★ **Backup and restore settings parameters**



- ★ Can measure a variety of physical quantities
- ★ Can adjust the analog output
- ★ Chinese and English bilingual menu
- ★ With digital filtering and echo recognition
- ★ Can be manually set fixed interference filter function
- ★ Support for Bluetooth, GPRS communication, GPS satellite positioning and so on
- ★ Support for custom serial data format
- ★ Support for custom main display interface
- ★ Support for custom math functions
- ★ Support for custom sound velocity (Special matter measurement)
- ★ Support MiniSD card data acquisition (with card 8G)

Application Areas

- ★ Water supply plant
Precipitation
- ★ Coal preparation plant
Precipitation
- ★ Electricity
Mortar
- ★ Sewage treatment plant
In addition to sink, sink, concentrated

Application Areas

- ☆ Channel survey, underwater topographic survey, underwater positioning, sea/river measurement and vessel navigation and positioning.
- ☆ Hydrological tests, hydropower plants, reservoir areas and so on.

Performance

Range: 0~10m (At 25°C standard in water, choose different sensors)
Blind zone: <0.5-0.8m (Different from range)
Minimum display resolution: 1mm
Maximum error: Range X 0.3%
Display: Chinese and English large screen LCD, color TFT (Optional)
Operating frequency: 200~2000KHz (Optional)
Field settings: Through the local button to complete
Calibration: Factory calibration, on-site calibration

Output (Optional)

Analog output signal: 0~20mA load >300Ω; 0~50V; 0~10V
Digital output: RS485 (Support Modbus)
Wireless transmission: Built-in GPRS wireless data prompt (Acquisition system can be customized)
Switch output: Two ways NPN

Powered By

Operating voltage: 3.7V lithium battery
External power supply: DC5V Normal power consumption: <1.5W



Physical Performance

Main dimensions: 200*94*40mm

Keyboard: Full keyboard keys

Sensor: stainless steel

Sensor cable: Wire diameter 5~10mmX10m

Environmental Performance

Operating temperature: $\leq 80\%RH$ No condensation Storage temperature: $-40^{\circ}C \sim 70^{\circ}C$

Storage temperature: $\leq 80\%RH$ No condensation Detection method: 15Hz/s

Working pressure: Normal pressure

Product Dimension Description (Unit mm)

