Level & Depth













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GE-102S Ultrasonic Sludge Interface Level Meter



GE-102S-A

The GE-120S level meter is specially designed to measure the interface for sludge, it could be continual and online to monitor the sludge interface leve in the sewage wastewater treatment field. This Sludge Level Meter could measure the position and height of sludge by the principle of ultrasonic echo, it will be real-time to monitor the thickness and depth of sludge, and to control the progress online. Then it could avoid the water quality deterioration and sludge denitrification & digestion.

This Sludge Interface Level Meter have perfect function to measure the depth, and control, data tranmit, communication, with depth data output via an RS485 serial port, or 4~20mA output. It is widely used in the sewage sedimentation tank, primary settling tank, secondary sedimentation tank, sludge thickening tank, very useful in the building of waterworks, ore washery, sewage treatment. water surface

Technology Specification:

- * Level Range: 1m ~ 5m ~ 10m (5m is standard, more than 10m need custom-made)
- * Accuracy: 0.8%
- * Blind Spot: <500mm
- * Draft Depth: 500mm
- * Detection Method: 1HZ/s (0.1~100HZ/s is available)
- * Wave Beam angle: 10±2 degree
- * Work Frequence: 100KHz~300KHz (Different transducer will be different)
- * Output: 4~20mA (Standard, 1~5V and RS485 is sively)
- * Power Supply: 110VAC ~ 240VAC 50HZ/60HZ (220V50HZ is standard)

* Protect Grade: IP65

Bottom















Email: sales@ayite.net

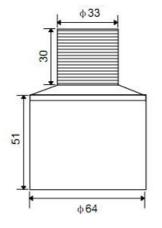
Thickness

Data for Transducer:

* Work Medium: Sewage
* Work Temperature: 0~40C

(higher temperature need custom-made)

* Cable Length: 10m (GE-102S-B is 1.0m)

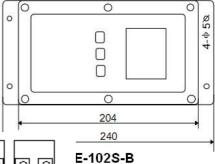


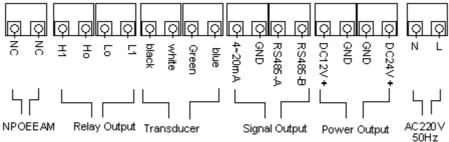


ULTRASONIC SLUDGE INTERFACEMETER GE-102S-A ALYITE TECHNOLOGY GROUP GE-102S-A GE-102S-A

Data For Tester Terminal:

- * Power Supply: 110VAC ~ 240VAC 50HZ/60HZ (220V50HZ is standard)
- * Display: LCD Screen
- * Resolution: d=1mm or 1cm(setting by user)
- * Keyboard: three slight touch key
- * Work Temperature: 0C ~ 50C
- * Storage Temperature: -20C ~ 70C
- * Work Humidity: <80% RH
- * Storge Humidity: 70% RH





Installation:

When install the transducer, please consider the protection for transducer. Put the cable through the pipe at first, then connect the pipe with the transducer, avoid the force to the cable, then avoid the rending for the cable, if rupture the cable, the transducer will be destroyed.

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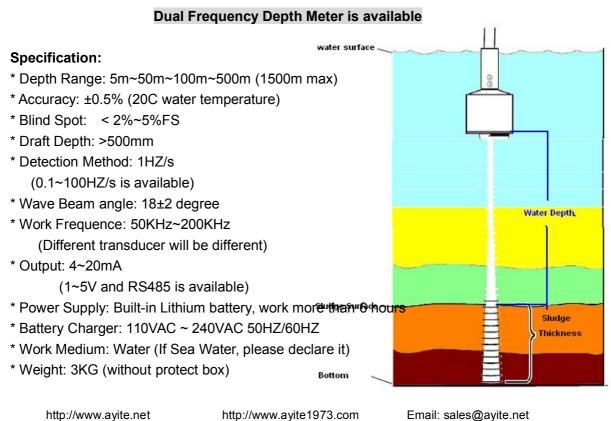


GE-103P Portable Ultrasonic Echo Depth Sounder Meter

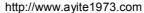


The Portable Echo Sounder is a low cost ultrasonic water depth instrument meter, which is used for measuring water depth in silting or sedimentation studies, dredging surveys in lakes, rivers, ports, sea, and inshore hydro-graphic surveying. These are also applicable in testing aid for electronic servicing, research and development, education, etc. The instrument can be used as a conventional echo sounder with depth data output via an RS485 serial port, or 4~20mA output.

This depth meter adopt the ultrasonic principle, have perfect function to measure the water depth, and control, data transmit, communication. The unit is sold as a complete package and includes transducer, handheld terminal, internal battery charger, and protect box.



















Handheld Terminal:

* Display: LCD, Multi-data, Four-digit number for dapth

* Resolution: d=1mm or 1cm(setting by user)

* Keyboard: five slight touch key

* Work Temperature: 0C ~ 50C

* Storage Temperature: -20C ~ 70C

* Work Humidity: <80% RH

* Storge Humidity: 70% RH

* Dimension: 235mm X 115mm X 70mm

* Power Supply: Built-in Lithium battery, work more than 6 hours





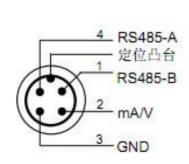
Transducer:

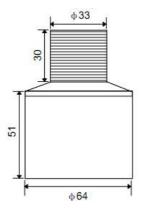
* Work Medium: Water (If Sea Water, please declare it)

* Work Temperature: 0C ~ 40C

* Cable: 10m







Battery Charger: 110VAC ~ 240VAC 50HZ/60HZ

















GE-103G GPS Portable Ultrasonic Echo Depth Sounder Meter



The Portable Echo Sounder is a low cost ultrasonic water depth instrument meter, which is have the GPS function, could measure Latitude, Longitude, Altitude, used for measuring water depth in silting or sedimentation studies, dredging surveys in lakes, rivers, ports, sea, and inshore hydrographic surveying. These are also applicable in testing aid for electronic servicing, research and development, education, etc. The instrument can be used as a conventional echo sounder with depth data output via an LCD screen and printer.

This depth meter adopt the ultrasonic principle, have perfect function to measure the water depth, and control, data tranmit, communication. The unit is sold as a complete package and includes transducer, handheld terminal, internal battery charger, and protect box.

Specification:

* GPS function: Latitude, Longitude, Altitude

* Depth Range: 0.5m~100m

* Accuracy: $\pm 0.3\%$ (20C water temperature)

* Blind Spot: < 0.1m

* Detection Method: 15HZ/s

* Work Frequence: 50KHz~200KHz

(Different transducer will be different)

* Output: LCD screen and Printer

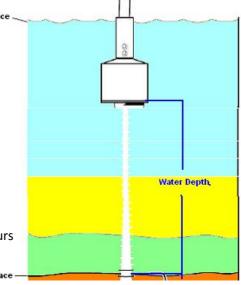
* Max Flow Speed: 5m/s

* Cable: 5m

* Power Supply: Built-in Lithium battery, work more than 6 hours

* Battery Charger: 110VAC ~ 240VAC 50HZ/60HZ

* Work Medium: Water (If Sea Water, please declare it) udge Surface



















GE-1201 Ultrasonic Level Guage Meter (2 line)

GE-1201 compact ultrasonic level transmitters are designed to measure liquid and solids levels, up to a range of 15 meters. The range can be configured by the keyboard and display. The level meter is mounted on top of the vessel or tank.

The microprocessor sent an electronic pulse, then the transducer converts it into an acoustic pulse. The pulse travels to the level that is being measured and reflected back to the transducer. The transducer then converts its energy back into an electronic signal and stops the counter in the microprocessor. Knowing the speed of sound through the air, then it can accurately determine the distance.

Specification:

1. Output: 4-20mA

2. Voltage: DC24V (24V ~ 30V)3. Diaplay: Four-digit number for level4. Level Range: 5m ~ 10m ~ 15m

5. Accurancy ±0.25%

6. Temperature: -25C ~ 65C

7. Resolution: d=1mm8. Protect Class IP65



GE-1202 Ultrasonic Level Guage Meter(4 line)

GE-1202 compact ultrasonic level transmitters are designed to measure liquid and solids levels, up to a range of 15 meters. The range can be configured by the keyboard and display. The level meter is mounted on top of the vessel or tank.

Specification:

1. Output: 4-20mA or RS485

2. Voltage: DC24V (24V ~ 30V)

Control: 2 Relay, programmable, control for high & low limit

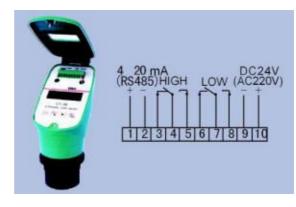
4. Level Range: 5m ~ 10m ~ 15m ~ 20m

5. Accurancy ±0.25%

6. Temperature: -25C ~ 65C

7. Resolution: d=1mm(Level Range < 10m); d=1cm (Level Range > 10m)

8. Protect Class IP65

















GE-1202E (Explosion-Proof)

Output: 4-20mA RS485
 Voltage: DC 12V ~ 24V

3. Control: 2 Relay, programmable,

control for high & low limit

4. Level Range: 5m ~ 8m~10m ~ 12m

5. Accurancy ±0.25%

6. Temperature: -25C ~ 65C

7. Resolution: d=1mm 8. Protect Class IP66

9. Anti Corrosion & Anti Explosion



GE-1202B IP68 Ultrasonic Level Meter

GE-1202B ultrasonic level meter is compacted design, better performance in bad environment, IP68 protect grade, it could supply all kinds of output signal, e.g. 4-20mA, 0-20mA, 0-5V, 1-5V, RS485, RS232, Modbus, MCU, PC, PCASK, NPN Switch, Relay Switch.

We could supply ODM customized service, wireless function and anti explosion function is available.

1. Standard Output: 4-20mA

2. Optional Output:

* 0-20mA,

* 0-5V, 1-5V,

* RS485, RS232: Modbus, MCU, PC, PCASK

* NPN Switch: 1, 2, 3, 4

* Relay Switch: 1, 2, 3, 4

3. Voltage: DC24V (24V ~ 30V) or 220V-240V AC

4. Level Range: 5m ~ 10m ~ 15m ~ 20m

5. Blind area: 300mm~500mm~800mm

6. Accuracy: $\pm 0.25\%$ or 0.5%

7. Resolution: d=1mm(Level Range < 10m); d=1cm (Level Range > 10m)

8. Protect Class IP68

Wireless Function: ODM customized service
 Explosion Proof: ODM customized service

















GE-1203 Ultrasonic Level Meter (Separated Body)

GE-1203 compact ultrasonic level transmitters are designed to measure liquid and solids levels, up to a range of 40 meters. The range can be configured by the keyboard and display. The level meter is mounted on top of the vessel or tank.

The microprocessor sent an electronic pulse, then the transducer converts it into an acoustic pulse. The pulse travels to the level that is being measured and reflected back to the transducer. The transducer then converts its energy back into an electronic signal and stops the counter in the microprocessor. Knowing the speed of sound through the air, then it can accurately determine the distance.

Specification:

Output: 4-20mA or RS485
 Voltage: AC220V; DC24V

3. Control: 4 Relay, programmable control for high & low limit

4. Level Range: 5m ~ 10m ~ 15m ~ 20m

(40m is available)

5. Accurancy ±0.25%

6. Temperature: -25C ~ 80C

7. Resolution: d=1mm(Level Range < 15m)

d=1cm (Level Range > 15m)

8. Protect Class IP67

















GE-1204 Ultrasonic Differential Level Meter

GE-1204 compact ultrasonic level transmitters are designed to measure liquid and solids levels, up to a range of 20 meters. The range can be configured by the keyboard and display. The level meter is mounted on top of the vessel or tank.

The microprocessor sent an electronic pulse, then the transducer converts it into an acoustic pulse. The pulse travels to the level that is being measured and reflected back to the transducer. The transducer then converts its energy back into an electronic signal and stops the counter in the microprocessor. Knowing the speed of sound through the air, then it can accurately determine the distance. Because it have 2 transducer, then it could calculte the difference between the 2 measure result.

Specification:

 Output: 4-20mA or RS485
 Voltage: AC220V or DC24V (110VAC is available)

3. Control: 4 Relay, programmable

4. Level Range: 5m ~ 10m ~ 15m ~ 20m

5. Accurancy ±0.25%

6. Temperature: -25C ~ 80C

7. Resolution: d=1mm(Level Range < 15m)

8. Protect Class IP67

















GE-1205 Radar Level Transmitter Meter

The GE-1205 ultrashort microwave impulse with very short emission energy can be emitted and received through antenna. The radar wave moves at the velocity of light. The moving time can be converted into substance position signal through electrical components. A special time-extension method can secure stable and precise measurement within very short time.

Even under very complicated working conditions, such as the existence of false wave echo, it is possible to precisely analyze the wave echo of the substance position by using the latest micro-processing technology and debugging software.

* Work Frequency: 6.8GHz
* Measure Range: 0~35m

* Repeatability: +/-2mm
* Response Time: >0.2s

* Output: 4-20mA HART

* Accuracy: <0.1%

* Power Supply: 24V DC(+/-10%),

* Environment Temperature: -40C ~ 80C

* Work Temperature: -40C~250C * Work Pressure: -1~40bar

* Explosion Proof: ExialICT6

* Protect Grade: IP68







1 Totect Glade. II 00				
Types	GE-1205A	GE-1205B	GE-1205C	
	Process condition is	Storing corrosive	Suitable for all kinds of storing	
	simple, corrosive	liquids, slurries and	tanks or process measuring	
	liquids, slurries and	solids	environment, liquids, slurries and	
	solids	For example:	solids.	
Application	For example: Water	Water tank	For example: Crude oil, light oil	
	tank	Acid and alkali	tank	
	Acid and alkali tanks	tanks, Slurry tanks	Coal and powder coal bunkers	
	Slurry tanks, Solid	Solid granules,	Volatile liquid tank, Charcoal level	
	granules	Small petrol tanks	Slurry tank, Solid granules	
	Small petrol tanks			
Measuring range	20 meters	20 meters	35 meters	
Process	Screw	Flange	Flange	
connection				
Process	-40-120℃	-40-150℃	-40-250℃	
temperature				
Process	-1.0-3bar	-1.0-20bar	-1.0-40bar	
pressure				















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Repeatability	± 2mm	± 2mm	± 2mm
Precision	< 0.1%	< 0.1%	< 0.1%
Frequency range	6.8GHz	6.8GHz	6.8GHz
Anti-explosion/s	EXiaIICT6/IP68	EXiaIICT6/IP68	EXiaIICT6/IP68
afety			
Signal output	420mA/HART(two	420mA/HART two	420mA/HART(two phases)
	phases)	phases)	

GE-1205 Smart radar level meter, for its characters of non-touchable measurement, can precious measure the media of pollution and corrosion. Its stable and accurate apparent is also shown in complex measurement. Outputs an analog signal 4~20mA, can be controlled by remote. It is adopted an unique micro-wave technology, Echo-tech process applied for various industrial condition. The pulse working method can measure small dielectric constant media, and safely applied in metal and nonmetal vessels. It is not harmful for human body and environment.















GE-130 series Level Sensor / Float Switch

- 1. Max Contacting Rate: 10w, 50w, 70w, 100w, 250w
- 2. Max Switching Voltage: ≤24VDC, ≤100VDC, 110VAC, 220VAC
- 3. Max Switching Current: 0.5A, 0.7A, 1.0A, 1.5A, 2.0A, 3.0A, 4.0A
- 4. CE ROHS ISO9001 ISO14001 OHSAS18001 standard
- 5. PTFE Teflon float switch is available.

Custom-made is Welcome!



GE-1305 Level Sensor / Float Switch



GE-1307 Plastic Level Float Switch



GE-1306 Stainless Steel Level Switch



GE-1308 Plastic Level Float Switch

















GE-1309 series Stainless Steel Level Switch / Float Switch













