# EYD322-G Hand held Ultrasonic Level Meter

#### Manual





### I, General information

Ultrasonic level measuring instrument, taking the advantages of various level measuring instruments, is a universal one characterized by total digitalized and humanized design. Besides level, it also can measure depth, thickness, weight, volume,

According to customer demand, we can add more function, such as: Bluetooth, GPRS, and GPS. Current output use isolated type module, its can better match with control instrument, such as PLC.

#### II Characteristics

- ★Built-in lithium battery3.7V (5.4)
- ★Backup and recovery parameter set,
- ★Bilingual menu
- ★Set a filter value to remove
- ★Support Bluetooth, GPRS, GPS (custom made)
- ★Customize serial port data format
- ★Support customize main display
- ★Support customize function calculation
- ★Support SD card data collection

## III, Specifications

Range: 5m (custom made) blind zone :< 0.5m (different for range)

Accuracy:±0.2%× maximum range Minimum indication resolution: 1mm

Indication: 3"LCD Power: 5V DC 1A

Power consumption :< 0.3W for work

< 0.03W for standby

Output: USB-UART

Protection degree: IP60 for instrument

IP67 for sensor

Operating temperature: normal Operating pressure: normal Instrument material: ABS Sensor material: PP

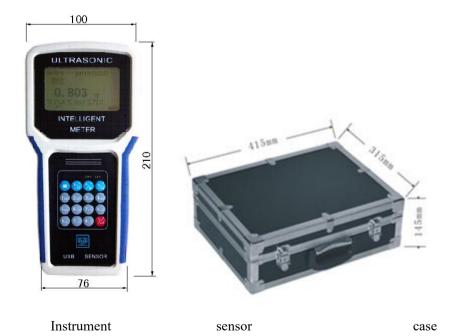
Cable: 10m

Dimension (mm):

Sensor dimension:  $\Phi$ 74mm $\times$ 135mm $\times$ M60(5m-15m)

Sensor installation: M60X2or Ф61mm

Instrument dimension: 210mm×100mm×76mm



Packing list: 1 main instrument (8G card)

1 sensor

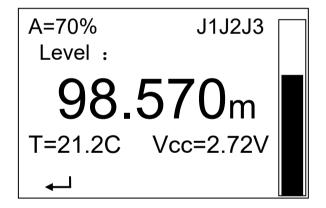
1 power adapter

1 data wire

1 case

# IV, Menu operation and parameters setting

#### 4.1 Main interface



A: Gain value (level is more reliable when gain is stable)

T: Ambient temperature

Vcc: voltage

Level percentage

#### 4.2 Menu and instruction

First class menu	Second class menu	Third class menu
Measure	Data Oper.	Ins. Ht
	Filter Set	Filter
	Sensor	PUL
System	Password	

Output	Serial	Add.
		Bdr.

Measure->Data Oper. ->Ins. Ht, Ins. Ht=installation height

When measures liquid level, it's the distance from sensor to tank bottom.

When measures space level, the value is 0.

Measure-> Filter Set-> Filter, filter times in fix time, 0-100.

Measure-> Sensor->PUL, transmitted intensity.

System->Password, password for menu:0.

Output->Serial->Add., serial address: 0-255.

Output->Serial->Bdr., serial baud rate: 600-38400

### V. Installation and precaution

#### 5.1 Sensor usage precaution:

- 1. Sensor should be vertical to the water surface.
- 2. There should be no shelter between sensor and bottom.
- 5. 2 It is preferred to use a 3.7V lithium cell. Refer to the tags attached on the instrument for wiring. In order to keep it working reliable and display precise, please electrify >2 minutes before work.

## VI. Trouble shooting

No	problem	probable reason	remedy
1	Not working when power on, no display, no sound of sensor	1 *	①check to ensure correct wiring as instructed. ②use DC supply, contact with distributor
2	No display of sensor but with sound	①operation of turning off display has been carried out. ②connected to high voltage, damaging display chip	① press any key to turn on display; ②contact with distributor.

	T		
	With sound and display, but the values	① too low input voltage leading to abnormal instrument. ② the sensor	<ol> <li>us DC supply</li> <li>contact with distributor</li> </ol>
3			2 contact with distributor
	not change with	or power driver damaged.	
	distance		
	With display and	①too deflective installation	①adjust the axis of sensor
	sound, no change with	2 improper setting of pulse intensity,	vertical to surface to be
	distance or irregular	leading to great residual vibration	measured ② adjustment
4	fluctuation of values	or diffraction 3 more than 2	transmit intensity 3 try
'		instruments on stream, interfering	to eliminate interference;
		each other 4too much	4)find out disturbance
		electromagnetic disturbance in	source and shield from it.
		working area	
	With sound of sensor,	① exceeding measure range ② too	① adjust actual range
	display: no sensor	close between surface and sensor	with permitted 2 adjust
		③improperly used for high dust,	working conditions as
5		foam or steam content fields, or too	required 3 change
		high or too low working	transmitting intensity
		temperature; improper setting of	until stable display
		pulse intensity	1 3
	With sound of sensor,	①non vertical installation, leading to	①adjust installation
	display deviations	multiple reflection 2 installed too	positions several times.
	exceeding 10cm	close to wall, sonic wave	② correctly set sensor
6	one coming 1 com	reflected midway 3 check for	
		correct setting 4 check for correct	
		display of temperature	
		display of temperature	

# **Manufacturer Certificate**

Type : \_\_\_\_\_

display resolution : 1mm	
output : □USB-UART ; □other	
working temperature : □normal ; □-10-60°C ; [	□other
working pressure : □normal ; □other	
working humidity : ≤80%RH	
storage temperature : -40—85°C	
storage humidity : ≤70%RH	
working voltage : 3.7V D	
	Inspected by:
	Delivery date:

# Guarantee log

Purchaser	Telephone
Address	Post code
Product	Туре
Item No.	Delivery date
Repair record	

1. According to <b>THREE GUARANTEES</b> , When there are problems with the product under correct operation, it can be refunded, changed and repaired free of charge within one week, three months and one year respectively from the day it was bought.
Notes  Was bought.  2. For the problems caused by improper use, only the cost of material will be charged.  3. The product can not be dismantled or unsealed without manufacturer's agreement; otherwise the repair service is not available.  4. The freight out and home in relation to repair will be paid by customer.