

# WATER LEVEL METER

## Introduction

GLT500A Water level meter is the new patented products . The new integrated circuit board design and development . With the function of polarization resistance excitation circuit and corrosion-resistant electrode to effectively prevent the electrode oxidation rust, keeping long-term sensitivity.

Water level meter can be widely used in water conservancy project , hydrology, geography, environmental protection and other areas of industry and agriculture fields ;

The water level meter is made of the probe, steel ruler and reel .Put the probe to the water slowly, when the probe touch the surface of water , the electric potential will be happend . After dealing by circuit board . the sound or light will be indicated , then you could check the height between the surface of the water to the ground , easily operating .

## Features

- 1. Quick response circuit design, high detect speed, high sensitivity
- 2. Adapt to various environmental and regional water quality
- 3. Low power consumption, battery-powered use two years at once
- 4. The cable has a ruler scale to measure the water level directly

## Application

- 1. water conservancy, environmental protection engineering
- 2. Hydrography
- 3. Rural Irrigation
- 4. Dam
- 5. Beware of rivers, power station
- 6. The underground water level and well water level

### Steel rule cable:



## Technical Specifications

Item	Parameter
Shell material	ABS, Metallica
Shell color	blue, yellow, black
Measurement range	30m, 50m, 100m,150m, 200m, 300m, 400m, 500m
Battery power	9V lithium battery
Instrument for temperature	-20℃~+60℃
The response time for output	≤1ms
Measurement error	≤±0.5mm
Adaptation range of water quality	10μω~1000μω
Measurement signal	LED, buzzer, electricity meter
Construction of cable	conductor: Multi-strand tinning copper wires twisted core wire: Special PP mixed insulation ecderon: Special PUR or PE mixed ecderon color : natural color
Rated voltage	300V
Testing Voltage	2000V
Insulation resistance	>200MΩ×km
Flame retardant	IEC60332-1
Temperature range	-40℃~+90℃

## Structure principle

- The reading consists of two parts:
- Ground receiving instrument - Water level meter, is made up of probe, steel ruler cable, receiving system and wire reel etc.
- 1.Probe: stainless steel material, with water resistance point of contact in inside , when the probe contact the water, it will turn on the receiving system automatically, when the probe contact out of the water , the system will automatically turn off the receiver.
  - 2.steel ruler cable:the ruler and the two wires together using plastic technology , not only prevent the corrosion of steel ruler , but also simplifies the process of operation , it make reading more convenient and more accuracy.
  - 3.Receiving system:made up of the sounder and peak indicating, sounder emits a continuous beeping sound from the buzzer , the peak indicated as voltmeter pointer , the two can be selected via DIP switch, no matter what kind of reception systems, the measurement result is the same.

## Use method

- 1.Before to use , loose the screws in the back of the wire spool . only allow free rotation of the wire spool, press the power button ( power indicator light ) , the water level probe into the tube , holding ruler cable , so probe move down slowly when exposed to the probe contacts the surface,it will emits a continuous beeping sound from the buzzer , then read out the result.
- 2.If there is a larger noise when measuring environment is bad, you can switch to a peak indication , as long as the selector switch on the instrument panel, it can be released to the voltage block , measurement method as above, the measurement range is the same.

## Attention

- 1.When probe touch the water, it will make sound immediately, or the voltmeter will have indicate . you should move down probe slowly and carefully to find position of sound or indicate after reading out the depth dimensions of the pitch orifice.
- 2.The accuracy of reading, which is determined by the starting position of the buzzing sound or instructions , operator proficiency measurement accuracy and relevant , it should be repeated exercises and operations.