

aobo
instrument



Handbook

Steel ruler water level gauge

Weifang AOBO Instrument Technology Development Co.,Ltd

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I. Overview

The steel ruler water level gauge provides the most accurate way to measure the water level, it can be used to measure the water level in the wells, boreholes and the water level pipes, it's very suitable for the underground water level observation in hydroelectric engineering and manual inspection of the earth and rock dam body saturation line.

The instrument can be used during construction, and also can be used for a long term as the safety monitor for the engineering, it complies with the earth dam safety monitoring technical specifications.

II. Main Technical

Specification	30	50	100	150	200	300	500	600
Measurement dept(m)	0-30	0-50	0-100	0-150	0-200	0-300	0-500	0-600
Minimum reading(mm)	1.0							
Repetitive reading(mm)	±2.0							
Operating voltage (V)	DC=9							

III. Principle

The measurement and reading of the water level gauge consists of two parts:

1. Buried part is consist of the water pipe and the bottom cover (purchase separately).
2. Receiving device on the ground-steel ruler water level gauge consist of the testing probe, steel ruler cable, receiving system, winding plate and the other components.

Probe: The probe is made of the stainless steel, and the water resistance contact point is installed internally, when the contact point touches the water, the receiving system is on, when the contact point leaves the water, the receiving system is off.

Steel ruler: The steel ruler and the lead wire are adopt the plastic technology to be the one, which prevents the steel ruler corrosion, and also simplifies the operation process, more

convenient and accurate reading.

Receiving system: It consists of the sounder and the indicator light . The sounder gives a continuous beep, and the indicator light gives the sharp flash.

IV. Instruction

During measurement, after the coil has been rotated, press the power, and put the probe into the water pipe, then hold the steel ruler cable, let the probe moves down slowly.

The sounder will gives a continuous beep when the contact point touches the water surface, then can read the depth of the steel ruler at the pipe mouth, that is the distance from the underwater level to the pipe mouth.

V. Notes

A) When the probe touches the water, the sounder beeps, the indicator flashes, then slowly put down the steel ruler cable, in order to find out the sound carefully or the exactly location of the indicate moment, then we can read the depth from this point to the borehole.

B) The reading accuracy is depends on the timely determination of the buzzer and the indicate starting position. The measurement accuracy is depends on the operator's proficiency, so the operator should practices more.

VI. Maintenance

Due to the battery capacity, please turn off immediately after the measurement is completed! Remove the battery cover and replace the battery (9V battery, multimeter battery).

Keep the probe and the steel ruler cable clean after use, and put the steel ruler cable neatly around the reel, and be placed in the cabinet.

Don't bend the measuring cable , especially when it is close to the head, to avoid the cable to be damaged.

Put the probe gently to avoid severe vibration. If the probe got any problem, please send back to our factory.

VII. Receipt and Storage

Users should check whether the number of instrument are tally with the packing list, if not, please contact with our factory.

The instrument should be stored in a room of $-10 \sim +40^{\circ}\text{C}$. The room's temperature is not greater than 80% with non-corrosive gas, keep the room dry and ventilated .

The equipment is subject to the rules of transportation, storage and usage within one year from the shipment date, if the product quality is lower than the technical conditions, we are responsible for the repair and replacement, but if unauthorized demolition, our factory will be not guaranteed.

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