

WATER LEVEL Indicator

(For Measuring the Ground Water Level)

Introduction

Excel Enviro Tech makes for measuring the water level and total depth in boreholes, wells, reservoirs etc. for the measurement the bob is lowered to the water level. When touching the level, a sensor effects the illumination of a signal lamp. On request, an additional acoustic signal will be released by a buzzer.

When the probe is touching the water-level there is a conductive connection between the tip of the probe and the sensor-body. Thereby a circuit of the lamp and the buzzer will be closed.

Response is seen on LED plus an audible tone is heard.

. This instrument can also be used for **Open channel, Dam and Lake level monitoring.**

Features&Specifications:-



| | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TAPE LENGTH 'L' (m) | 50,100,150,200,250,300 as per the user need |
| Resolution (tape length in m) | 1 Meter standard Standard cable lengths, 90 meter, with marking on every 1 meter length flexible measurement scale will be provided with this system for fine resolution (1cm). |
| Cable | High tensile virtually non-expandable, non-stretch, PE insulated coaxial cable |
| Cable Size | 3 mm diameter |
| Probe | Stainless Steel with 12 mm diameter |
| Power supply | 9 V |
| Audio Signal | Sound buzzer |
| Visual Signal | Green/Blue LED light Signal |
| Case | Wooden Polish Box |

Ordering Guide

| Model No. | Description |
|-------------|------------------------------|
| HAL/WLI/001 | Ground Water Level Indicator |

****Drawing / specifications are subjected to change at any time without prior notice as per manufacturing suitability.**

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WATER LEVEL Indicator **(For Measuring the Ground Water Level)**

INTRODUUCTION

Monitoring of ground water table has assumed great significance in view of depleting ground water reserves. The basic measurement of ground water level can be done by Open Stand pipe or constructing observation wells.

Excel Enviro Tech water level sounder is widely used for measurement of water level in boreholes, wells, Casagrade piezometers and standpipes. It is accurate, robust, light weight and convenient to use.

OPERATINGPRINCIPAL

Model HAL/WLI/001 water level sounder comprises of a probe, graduated cable and cable reel. The unit is battery operated complete with an on-off switch, buzzer, LED for power on and signal, flat cable connected to probe, winding reel and easy to grip carrying handle. The probe is of stainless steel construction with a diameter of 12.7 mm. The slim size of probe makes the unit suitable for narrow bore holes also. The probe consists of two electrodes with an insulating gap between them.

When tip of probe comes in contact with water inside a bore hole, standpipe or well, the circuit is completed giving a sound alarm and a light signal. The elevation of water is then directly determines by noting the tape reading that coincides with the top of the borehole, stand pipe or well. The moisture resistant electronics, a high volume buzzer and a standard 9 V battery are housed in a hub on the cable reel. The hub can be easily removed to replace the battery or check the electronic without disassembling the entire cable reel.

A locking arrangement is provide on the reel to prevent cable from unwinding, whenever necessary.

A threaded cap is provided at the bottom of the probe. Remove the cap provides access to clean the insulation between the two electrodes of any undesirable conducting material that may deposit from the ground water on the insulation.

DESCRIPTION

The cable of the model HAL/WLI/001 water level indicator is made of high tensile virtually non-expendable, non-stretch, PE insulated fate tape 10mm wide X 2 mm thick. The length of the cable is commensurate with the depth up to which the observation is required to be made. The tape has integral twin wires for current transmission. The two conductor cable serves to lower the probe and also to connect the probe to the output circuit board. The permanent marking on the tape is available in meter with a resolution of 1mm.



SPECIFICATION OF WATER LEVEL INDICATOR

| | |
|-------------------------------|----------------------------------------------------------------------------|
| TAPE LENGTH 'L' (m) | 30,50,100,150,200,300 |
| Resolution (tape length in m) | 1 mm standard |
| Cable | High tensile virtually non-expandable, non-stretch, PE insulated flat tape |
| Cable Size | 10 mm wide x 2 mm thick |
| Probe | Stainless Steel with 12.7 mm diameter |
| Power supply | 9 V |
| Audio Signal | Sound buzzer |
| Visual Signal | Green LED light Signal |

FEATURES

Low Cost, Reliable and Accurate

Simple to read, with audio and visual green LED Signals.

Portable, light weight and easy to carry.

Flat cable with steel graduated tape is high tensile, virtually non-expandable, water proof and corrosion resistant.

Tape graduation available in meter with resolution of 1mm.

Tape locking arrangement provided.

APPLICATION

Measurement of water level in stand pipes, casagrade piezometer, borehole and wells.

Ground water level measurement in boreholes near dams, river high rise buildings, farm houses, factories, institutes and residential areas.

Ideal for simple ground water level monitoring.

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