

WATER LEVEL SOUNDER

MODEL NO : 11 - PROWL

INTRODUCTION

Model No : 11 - PROWL water level sounder is widely used for measurement of water level in boreholes, wells, casagrande piezometers and standpipes. It is accurate, robust, light weight and convenient to use.

OPERATING PRINCIPLE

Model No:11-PROWL 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, 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 boreholes also.



FEATURES

- Ø Reliable, accurate and simple to read, with audio and visual signals.
- Ø Low cost, portable, light weight and easy to carry.
- Ø Flat cable with steel graduated tape is high tensile, virtually non-expandable, water proof and corrosion resistant.
- Ø Tape graduations available in meter with resolution of 1 mm or in feet with resolution of 1/16".
- Ø Tape locking arrangement provided.

APPLICATIONS

- Ø Measurement of water level in stand pipes, casagrande piezometer, boreholes and wells
- Ø Ground water monitoring

The probe consists of two electrodes with an insulating gap between them. When tip of probe comes in contact with water inside a borehole, standpipe or well, the circuit is completed giving a sound alarm and a light signal.

The elevation of water is then directly determined by noting the tape reading that coincides with the top of the borehole, standpipe or well.

The moisture resistant electronics, a high volume buzzer and a standard 9 V PP-3 size battery are housed in a hub on the cable reel.

The hub can be easily removed to replace the battery or check the electronics without disassembling the entire cable reel.

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

A threaded cap is provided at the bottom of the probe. Removing 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 with time.



CABLE DESCRIPTION

The cable of Model NO:11-PROWL water level sounder is made of high tensile virtually non-expandable, non-stretch, insulated flat steel tape 10 mm 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 markings on tape is available in meter with a resolution of 1 mm or feet with a resolution of 1/16".

Model No: 11-PROWL water level sounder is available with following tape lengths:

Length 'L' (m) 30, 50, 100, 150, 200, 300

Resolution 1 mm

Length 'L' (ft) 50, 100, 150, 300, 500

Resolution 1/16"

ORDERING CODE:

11 - P R O W L - L - X

[L= length, X = unit (m or ft)]

Manufactured & Marketed By:

M/S. Bombay Instrument Mfg. Co.

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