



ENCARDIO RITE



OPEN STANDPIPE

MODEL EPP-10SP

INTRODUCTION

The model EPP-10 SP standpipe is used for measuring ground water level and its variation with time.

DESCRIPTION

The standpipe consists of PVC riser pipes, 50 mm o.d., 44.5 i.d., 3 m length with inbuilt socket for jonting. The intake point of the standpipe consists of a PVC slotted pipe, 1 m length, 50 mm o.d., covered with geotextile. Bottom end of perforated pipe is plugged with a suitable PVC cap.

OPERATING PRINCIPLE

Standpipe is set in a hole, which is drilled into the soil/foundation to a predetermined elevation to intercept ground water. The perforated pipe is connected by sockets to same diameter plastic riser pipes extending to the surface. The borehole is filled with pea grave. The top of borehole is sealed with cement bentonite plug. Ground water seeps into the raiser pipe through the slotted end and attains a level equal to ground water. This level is determined by an electrical sounding device model EPP-10/6 lowered from the surface.

A plate hinged cover with locking arrangement is provided for mounting at top of the standpipe. The locking arrangement has a universal key and a dust protection cap.

Figure 1 gives typical assembly and installation layout of the EPP-10SP standpipe.

EPP-10/6 Water level sounder

The Encardio-rite model EPP-10/6 water level indicator is designed to measure the elevation of ground water in bore holes, stand pipes and wells. It is robust, light and convenient to use.

The water level indicator is lowered from the surface with the help of the connecting flat cable for taking observations. The cable is made of high tensile virtually non-expandable, non-stretch polyethylene coated

FEATURES

- ◆ Reliable, accurate and simple to read.
- ◆ Proven technology.
- ◆ Can be installed after the construction of the dam is completed by drilling a proper bore hole at the desired location to the original depth.
- ◆ Stand pipe of durable heavy duty PVC construction.
- ◆ Flat cable used in water level sounder is high tensile, virtually non-expandable, water proof and corrosion resistant.
- ◆ The water level sounder is portable, light weight and easy to carry.
- ◆ Low cost, rugged and easy to install.
- ◆ Locking arrangement provided.

flat tape 10 mm wide x 2 mm thick. The cable is marked red in metres and black in centimetres. The length of the cable is commensurate with the depth up to which the observation is required to be made.

The unit is battery operated complete with an on-off switch, buzzer, flat cable connected to a probe, winding



reel and carrying handle. The probe has a diameter of 10 mm. The 3 mm long tapered tip of the probe is insulated from the main housing by a 12 mm long black teflon spacer. The buzzer will sound when the water in the borehole/well makes simultaneous contact with the tip as well as the lower end of the housing.

The moisture resistant electronics and 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.

The EPP-10/6 is standardised in tape lengths of 30, 60 and 100 m. The unit is available in tape lengths upto 300 m.

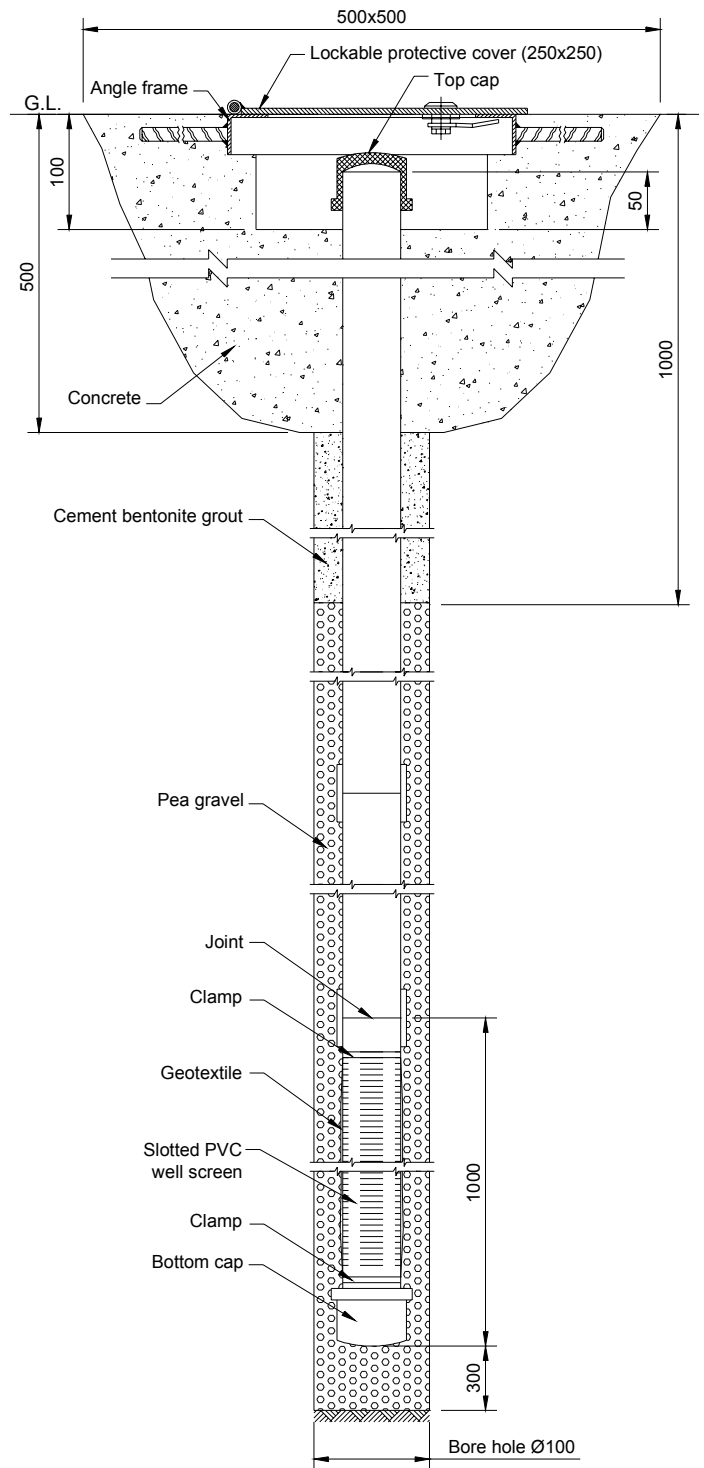


Figure 1

All specifications are subject to change without prior notice.

ENCARDIO-RITE ELECTRONICS PVT. LTD.

A-7 Industrial Estate, Talkatora Road, Lucknow, UP-226011, India
 Tel +91 (522) 2661044 Fax +91 (522) 2661043 E-mail sales@encardio.com

Visit us at: www.encardio.com

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