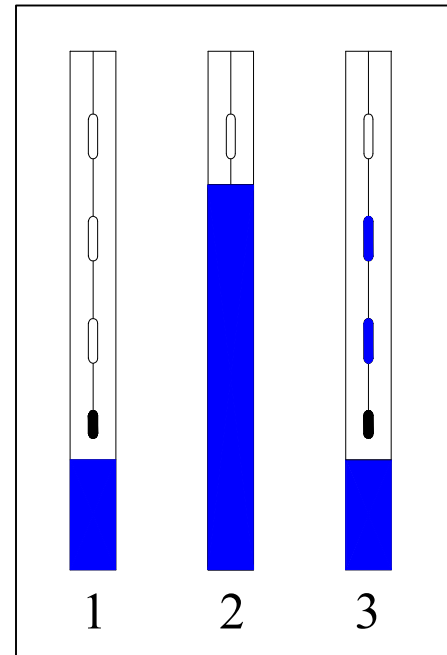


MODEL 8030

The Geotechnical Systems Australia Pty Ltd **Bucket Piezometer** is designed to provide a direct indication of the level to which (or above which) the water in a standpipe piezometer has risen since the previous measurement was taken. A simple device, the bucket piezometer is a good alternative when logging is not feasible.



OPERATING PRINCIPLES

The device comprises an elongated capsule having a water inlet and an air vent in the sidewall. It is suspended in an upright position in a 25mm minimum internal diameter standpipe piezometer. A series of similar buckets are suspended one below another with pre-selected distances between each bucket and a weight connected to the bottom of the string.

When the water level rises above the water inlet, the bucket fills with water at least to the level of the inlet opening and remains full even if the water level recedes.

When the borehole is inspected the bucket piezometers are withdrawn and the number of full buckets recorded. From this the maximum level of water in the piezometer can be established.

The buckets must be emptied prior to reinstallation.

The ancillary equipment required to enable the buckets to be suspended at the predetermined levels and spacing comprises: nylon line (made up to known lengths), crimp connectors, a toggle for suspending the string of buckets from the top of the standpipe, and load weights to overcome the buoyancy of the bucket piezometers and assist in lowering the system.