

BAT piezometer

With the BAT system you can measure accurately and efficiently the pore pressure in the soil. With an additional set of attachments the BAT system also offers the possibility of determining the permeability of the soil surrounding the piezometer tip and to collect accurate groundwater samples. Typically the BAT piezometer consists of a filter tip and a sensor both installed via a steel gas pipe.



Absolute pressure

The BAT system measures the absolute pressure, which guarantees stability especially during long-term measurements. You can also disconnect the sensor at any time to check its proper function and to determine the exact depth of the filter tip at any time.

Applications

Typical applications for the BAT piezometer are:

- Monitoring pore water pressures to determine safe rates of fill or excavation.
- Monitoring pore water pressures to determine slope stability.
- Monitoring the effects of ground improvement systems such as vertical drains and sand drains.

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- Monitoring pore pressures to check the performance of earth fill dams and embankments.
- Monitoring pore pressures to check containment systems at land fills and tailings dams.
- Monitoring of contamination.

Installation

The BAT system consists of a filter tip and a sensor. The filter tip is pushed to the desired depth using a standard gas pipe and a CPT unit. The sensor component then is simply lowered into position through the gas pipe. As soon as the BAT-sensor has contacted the filter tip the pore pressure measurement will start. After finishing the measurement you can easily retrieve the sensor and use it again at another project.

Results are digitally stored

The instrument is an intelligent sensor and as such the measurement results are digitally stored in the internal memory of the BAT-sensor and later on downloaded via the IS field unit to a PC for further analysis.

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