



SEISMIC CONE®

Features:

- Three seismic signals, optionally six
- Integration with other geotechnical parameters
- Available in 10 cm² and 15 cm²

Seismic cone®

Introduction

A growing interest in the understanding of stress-strain behaviour of geo-materials has closed the gap between static and very small strain dynamic measurements of stiffness. This has resulted in an increasing use of the down hole seismic cone to measure the dynamic shear modulus G as part of the site investigation. These in situ non-destructive methods can be applied to the monitoring of soil improvements (i.e. Dynamic Compaction). Seismic methods utilise the propagation of elastic waves through the ground. Two different categories of seismic waves are applied namely body waves and surface waves which include Rayleigh R waves. A simple and cost-effective subsurface method makes use of the seismic cone records, transit time of seismic waves over known distances. The energy source is usually a hammer for generating the waves; for offshore applications different techniques are used.

Practical use

The seismic cone is available in 10 cm² and 15 cm² types, the parameters shear wave left/right and compression wave can be combined with the regular geo-

technical parameters q_c, f_s, U_2 . Moreover an inclinometer can be added.

For a more accurate determination of the Δt over intervals a second set of geophones can be placed 500 or 1000 mm above the first set. With two CPT rigs so-called cross hole seismic cone tests can be carried out.

*"Van den Berg
in
every field"*

Specifications

Cone type 10 cm² and 15 cm².

The system with two geophone sets can be supplied in 15 cm² cones only.

The seismic waves can be measured with optional hard and software for our 2nd generation and Touch-Screen® data loggers.

We reserve the right to change specifications without notice.



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