

Electrical CPT(U)

Electrical cones

Geomil
equipment

*World's first manufacturer
of CPT equipment*



Geomil Equipment electrical CPT(U) cones, compression or subtraction design, is the measuring method for Cone Penetration Testing. Quality load cells and high precision calibration make all electrical cones complying to EN ISO 22476-1 standards.

The electric cone measures the cone resistance (q_c) and local sleeve friction (f_s), using strain gauged measuring bodies. In addition, (excess) pore water pressure (u) is measured by a piezo element and the inclination (i) by accelerometers. Geomil uses an inclination sensor for x- and y- deviation.

Standard measuring ranges are 100 or 50 MPa for q_c and 1 or 0.5 MPa for (f_s).

Standard available:

AC10CFIIP.100.1000.15.15.20

AC10CFII.100.1000.15.15

AS10CFIIP.100.1000.15.15.20

AS10CFII.100.1000.15.15

AC15CFIIP.100.1000.15.15.20

AC15CFII.100.1000.15.15

AS15CFIIP.100.1000.15.15.20

AS15CFII.100.1000.15.15

Explanation cone codes:

C-100 = (q_c) max. 100 MPa

F-1000 = (f_s) max. 1000 kPa

I- 15 = max. 15 degrees inclination

P-20= max. 20 bar

The load cell signals are amplified and transmitted up-hole as a voltage signal via cable and converted to a 16 bit digital signal in the GME 500 data acquisition system.

The cones can also be provided with a temperature (T) sensor and environmental or seismic adapters.

A typical Geomil electrical CPT system comprises:

- Electrical compression or subtraction cone with 10 cm² or 15 cm² cross-sectional area, supplied in portable protection case.
- CPT cable, available in standard lengths of 2, 10, 30 and 50 m or customized length on request.
- Push-/pull clamp 3655 with a proximity switch for triggering the depth recording.
- Depth encoder, providing incremental digital pulses.
- Data acquisition system GME 500 for A/D conversion and data synchronization.
- CPT tubes and cross-over adapter.
- Windows computer for automatic recording of the CPT data.
- Windows based CPTest acquisition and CPTask presentation and interpretation software.

For more technical information or a quotation based on your specific demands please contact sales@geomil.com or call us at 0031 (0) 172 427800.



0060_02

www.geomil.com