

CONES

DIGITAL PIEZO STATIC CONE PENETROMETER

The Digital Piezo Static Cone Penetrometer (PCPT) is a rugged and compact system; the analogue to digital conversion is performed down hole, with each cone possessing its own memory and identity that is automatically recognised when connected to the logging system.

This is a compression cone, meaning the tip resistance and sleeve friction load cells are decoupled and measure independently; this ensures that the readings from the cone are more accurate than other cones. Accurate temperature compensation assures reliable performance in soft soils and also in a situation where there is a considerable difference between air temperature and ground temperature.

SPECIFICATIONS

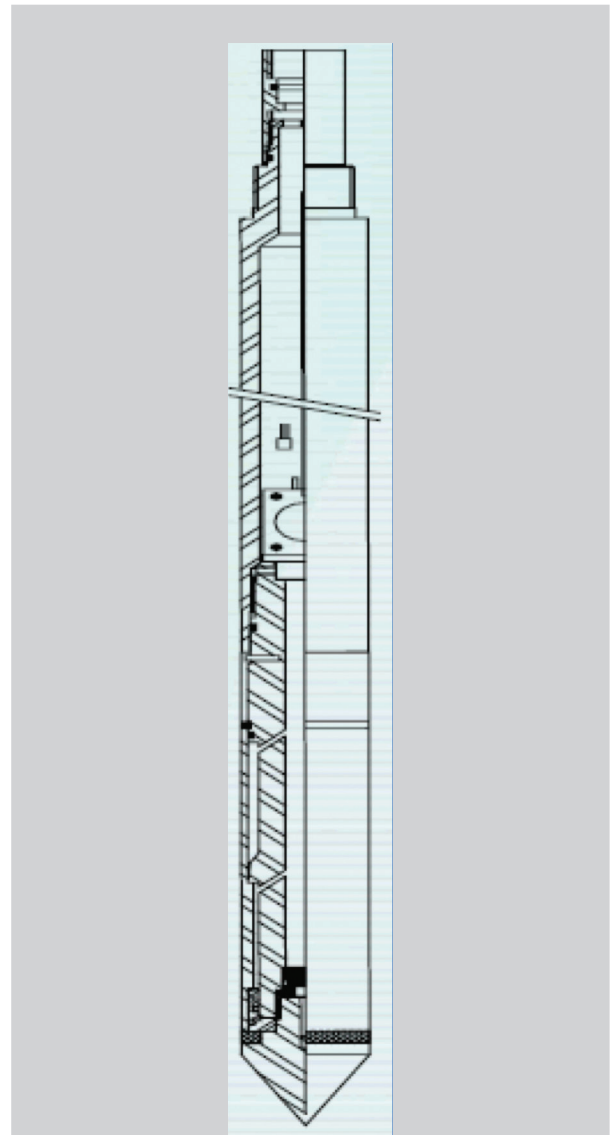
| | | |
|---------------------------------|-----------------------|-----|
| CONE SIZE | 15CM ² | |
| α VALUE | 0.81 | |
| RESOLUTION | 200μV | |
| MAX. SENSOR INPUT | 3.5V | |
| POWER REQUIREMENTS | 12 V DC | |
| TIP LOAD RATES | RANGE (kN) | 225 |
| | OVERLOAD CAPACITY (%) | 150 |
| | ACCURACY (%) | 0.2 |
| SLEEVE LOAD CELL | RANGE (kN) | 45 |
| | OVERLOAD CAPACITY (%) | 150 |
| | ACCURACY (%) | 0.2 |
| PORE PRESSURE TRANSDUCER | STANDARD RANGE (MPa) | 3.5 |
| | BURST PRESSURE (%) | 150 |
| | ACCURACY (%) | 0.5 |
| INCLINOMETER | RANGE (±°) | 15 |
| | ACCURACY (°) | 1 |



IN SITU SITE INVESTIGATION

Penetration House, 13 Vale Road, Battle,
E Sussex, TN33 0HE, United Kingdom

T: +44 (0) 845 862 0558
F: +44 (0) 845 862 0559
E: info@insitusi.com



Digital Piezo Static Cone Penetrometer diagram