

CONES

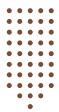
DIGITAL PIEZO STATIC CONE PENETROMETER

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

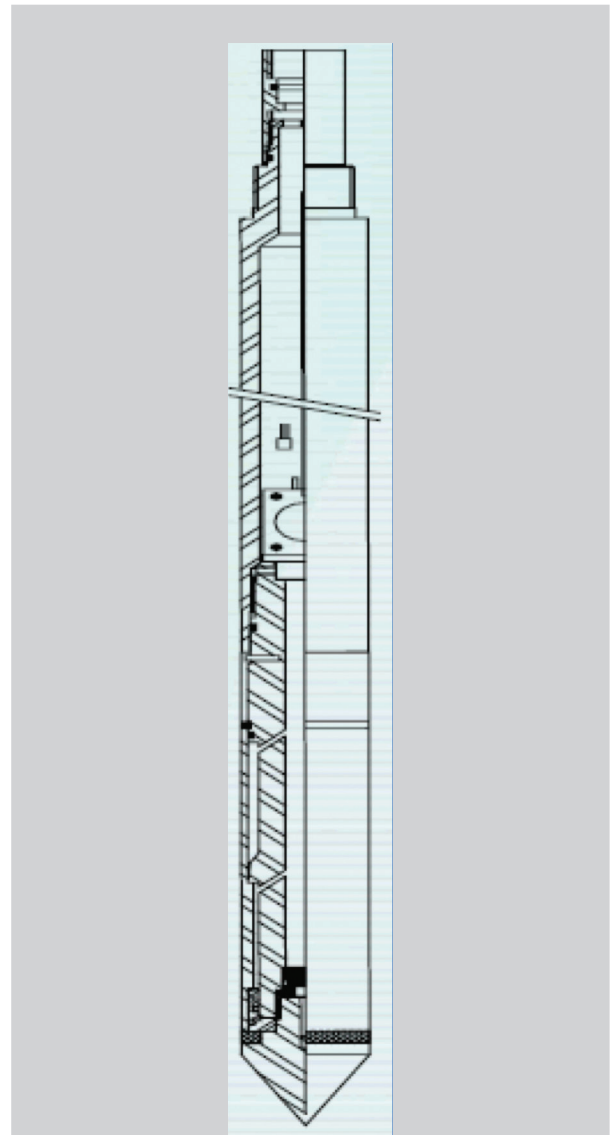
CONE SIZE	15CM ²	
α VALUE	0.81	
RESOLUTION	200μV	
MAX. SENSOR INPUT	3.5V	
POWER REQUIREMENTS	12 V DC	
TIP LOAD RATES	RANGE (kN)	225
	OVERLOAD CAPACITY (%)	150
	ACCURACY (%)	0.2
SLEEVE LOAD CELL	RANGE (kN)	45
	OVERLOAD CAPACITY (%)	150
	ACCURACY (%)	0.2
PORE PRESSURE TRANSDUCER	STANDARD RANGE (MPa)	3.5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



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Digital Piezo Static Cone Penetrometer diagram