

Soil Assessment Cone Penetrometer - Model A2451



The CNS Farnell **S**oil **A**ssessment **C**one **P**enetrometer (SACP or MEXE-CONE) is a lightweight instrument for rapidly measuring in-depth resistance to penetration, indicating with a dial, in terms of California Bearing Ratio (CBR).

Developed in conjunction with the UK Ministry of Defence, the SACP is a robust and reliable instrument used throughout the world by both commercial and military establishments.

Measurement range for CBR is from 0-15% CBR. Soil trafficability measurements can be made using the Cone Index (CI) range. The linear CI range is from 0-300 and has 60 divisions, each of 11.12N (1.13kgf). Full deflection is 667N (67.9kgf).

Steady penetration of the cone into the soil is required and readings are taken from the dial at 75mm (3") intervals during penetration to a maximum depth of 600mm (24").

In fine-grained soils, for which the SACP is primarily intended, measurements correlate closely with CBR values, measured in-situ with conventional equipment. ¹

The SACP is supplied complete with carrying case, which contains one CBR cone, one CI cone, one top rod, three extension rods (150mm each), tools and operating instructions.

Weight (including case) is 2.5kgs

NATO Stock No. W10-6635-99-960-8505

1. Ref TRL Report LR901.

