SOIL > SOIL CLASSIFICATION

SOIL PENETROMETER (Pocket Type)

Code : T304

- The Pocket Type Soil Penetrometer is a compact, handheld device used to provide rapid estimates of the unconfined compressive strength of cohesive soils in the field. It is an essential tool for geotechnical engineers conducting preliminary site investigations and assessing soil consistency.
- Constructed with a precision-calibrated spring mechanism, the penetrometer measures the resistance of soil to penetration, offering immediate readings that aid in soil classification and stability evaluations.
- The device features a piston with a standardized surface area, ensuring consistent penetration depth and reliable measurements across various soil types.
- A sliding indicator ring retains the maximum penetration resistance reading, allowing for easy recording and analysis without the need for continuous observation during testing.
- While the pocket penetrometer provides quick field estimates, it is not a substitute for comprehensive laboratory testing. However, it serves as a valuable preliminary assessment tool to determine the necessity for more detailed analyses.

- The device is widely used in applications such as trench stability assessments, excavation support evaluations, and preliminary foundation design considerations.

TECHNICAL SPECIFICATIONS

- Piston surface area: 32.30 mm^2 (0.5 in^2)
- Indicator: Sliding ring for maximum reading retention

ORDERING INFORMATION

Item Name	Item Code
POCKET PENETROMETER - 4.5 kgf/cm²	T304X05XH
POCKET PENETROMETER - 16 kgf/cm²	T304X16XH