

Pile Echo Tester concrete

Make: LabTek

Model: SL-2046

Origin: India

Product Specification: The Pile Integrity Tester (PIT) gives a pile or shaft is free of major cracks and voids, prior to construction of the superstructure. It may be used on most concrete or wood foundations. The PIT may also be used to test piles integral in the structure, such as those supporting existing bridges or towers, and may assess their length. The PIT performs wave equation-based non-destructive foundation investigation known as Low Strain Impact Integrity Tests or Low Strain Dynamic Tests. These test may be performed by the Pulse (or Sonic) Echo or Transient Response Methods. With the PIT, any form of the test is performed fast, potentially making it possible to test every pile on a job site.



Crack Measuring Microscope

Make: LabTek

Model: SL-2047

Origin: India

General description: A high quality microscope designed for measuring crack widths in concrete members, masonry walls and other structures. The apparatus operates by an adjustable lamp unit and the image is focused by turning a knob. The eyepiece scale can be turned through 360° to align with the direction of the crack or pitch under examination. The battery operated microscope has 40x magnification and 4 mm measuring range with 0.02 mm subdivisions.

Cementometer Moisture Meter

Make: LabTek

Model: SL-2060

Origin: India

Features & Benefits

Fast and easy to use; simply insert the prongs into the material being tested

Accurate

Completely Portable

Full range of water cement ratio's Instantaneous readings

The Cementometer represents a break-through in modern moisture measurement technology.

By utilizing the latest microwave and microprocessor science, the Cementometer can determine the moisture content of freshly mixed cement, concrete, and mortar. Simply insert the prongs of the probe into the material to be measured and instantaneously the water cement ratio is shown on the easy to read display.

The Cementometer Microwave moisture meter uses a two prong sensor to measure the complex dielectric constant of the material in contact with the prongs. As the dielectric constant of water is four to eight times greater than most aggregates and cements, changes in water content directly effect the sensor output. An average of five to ten readings is normally taken in order to ensure a valid reading. This output is then converted by the integrated microprocessor and moisture content is displayed directly.

Two units are available to encompass the full range of water cement ratio's found in wet concrete. The Cementometer Type R handles normal water cement ratio's with its two prong probe. The range of this instrument is approximately 0.35 to 0.65 water/cement. Cementometer Type L™ handles low water/cement ratio's with its five prong probe. The range of this instrument is approximately 0.25 to 0.5 water cements.

The units come calibrated for standard type I, II, and III cements. It can also be programmed with up to ten different mix design by the user. For highest accuracy, the user should program the unit for the material being used. The Cementometer Type R™ has simple to use calibration process that rapidly creates the user programs without the need for external computing devices. Finally, the Cementometer can store over 150 readings. Storage is complete with the time and date for future reference. Data can be recalled via USB interface to a personal computer running the Cementometer software.

