

Product Name :
Pile Integrity Tester

Product Code :
TEST5176RTLBT-0028



Description :

Pile Integrity Tester

Technical Specification :

Pile Integrity Tester

The Pile Integrity Tester (PIT) 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.

Specifications:

Able to test 200+ piles can per day

Handheld,

Storage for over 700 results

On site analysis of pile length, section and stiffness

Backlight LCD screen for working in dark environments

Simulation software for analysis of pile and soil properties

Impedance log for measuring changes in pile properties

Instrumented Force hammer

Software: Analysis software is supplied as standard.

Measurements

Acquisition: 2 channel, 16 bit acquisition at 25Khz sample rate. Pre-trigger on bochannels and auto-ranging gain featur

Frequency Range: 0 Hz to 5000

Storage: 700+ results, including 3 data sets per pile with full header information site, pile no, diameter, operator, transducers and date/time stamp

Displays

Velocity-Time: Output from geophone in time domain. Used for length calculation.

Force-Time: Used to check the force duration and

Force-Frequency: To check force spectrum and validate Mobility

Frequency: Mobility or impulse response curve is displayed. Length and pile stiffness calculations can be made with cursors. Theoretical mobility

Transducers

Impulse Hammer: 1.2Kg fiber glass shafted hammer, with built in constant current load cell fitted with black plastic tips suitable up to 1500Hz range.

Geophone: Vertical Sensor geophone, type SM 6 Nominal output 30 volts/m/sec, with natural frequency of 4.5Hz

Calibration: both transducers supplied calibrated

General

Operating Temperature: 0 to 500 C

Accuracy

Frequency: 0 1000Hz, $\pm 0.5\%$, Black

Mobility: 20 800Hz, $\pm 15\%$

Mobility: 800 1000Hz, $\pm 50\%$

Power

Battery: 1.2V NiMH rechargeable "AA" cells

Power off: Auto

Standard Supply

Include:

toPile Integrity tester, Instrumented Hammer, Spare hammer tip Geophone, USB Data transfer cable, AC Adapter charger, DC Charge lead, Waterproof, Padded Carrying case, Protective pouch with neck strap, Instruction Manual, Software CD.



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