



PET—Pile Echo Tester (Bluetooth model)

Piletest's Pile Echo Tester (PET) is a user-friendly, highly flexible solution for testing a large number of deep foundations quickly and accurately.

Requiring little-to-no training, PET is a modular, computer-independent system that connects to any Pocket PC via Bluetooth protocol.

The PET system utilizes the pulse-echo method. To test a pile, the user strikes it with PET's lightweight handheld hammer. The resulting signal, or reflectogram, is captured and transferred to the computer by PET's digital accelerometer, providing real-time information about the length and shape of the pile.

Main Advantages

Ease of use: PET's user-friendly software makes it possible to master the system in less than a day. No additional expensive training is required

Excellent signal quality: PET's low noise level enables the system to handle extremely long piles

Computer independence: Unlike other system based on an embedded computer (which may soon become obsolete) PET connects to any existing or future computer and Pocket PC.

Labor saving: PET software includes a number of labor-saving features such as advanced project organization; software-suggested wave speed; Smart Trigger™ and AutoSort to reject anomalous blows; one-touch controls of scale, amplification, and filtering; plus many more

Robustness: Specially designed to test piles, shafts and caissons in construction environments. The PET sensor is made of bullet-proof unbreakable Lexan. It is waterproof and comes with three years warranty.

The PET package includes:

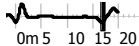
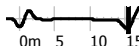
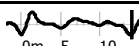
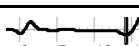
- A digital transducer
- A nylon hammer, spare tips, special putty
- Testing, analysis and reporting software
- Interpretation assistance package
- Unlimited number of software licenses



PET with PocketPC



The PET package

Pile	Depth (m)	Reflectogram	Details	Remarks
S*/9	16.8 m		Amp:75 Planned:16.0m Avg:5	
S*/14	15.4 m		Amp:55 Planned:15.0m Avg:12	
S*/15	14.0 m		Amp:50 Planned:13.0m Avg:17	Anomaly at 5.1m
T/13	14.2 m		Amp:120 Planned:14.0m Avg:11	

Typical report

Technical Specifications

Physical	Housing	Industrial grade transducer enclosed in a highly-durable polycarbonate plastic (Lexan)
	Dimensions	25.4 mm (diameter) x 90 mm (Length)
	Weight	270gr (Transducer) 3kg (Shipping)
	Temperature range	-20°C to +55°C (Operating) -40°C to +80°C (Storage)
	Waterproofing	IP67 (Protection against complete submersion in water)
Transducer	Sensitivity	100mV/g
	Linearity	Within 1%, 0 to 50g
	Resonance frequency	30kHz
	Sampling frequency	50kHz
	Power	2 AAA Alkaline batteries, 3V total. Sufficient for testing approximately 300 piles
Standards	ASTM D5882-07	Meets or exceeds
Performance	Pile lengths	2m to 100m (depending on diameter and soil profile.)
	Productivity	Up to 100 piles/hour by single operator (under favorable conditions)
	Storage	Unlimited
	Range	Up to 10 m between transducer and computer
Requirements	Computer	Pocket PC Operating system Windows Mobile 5 or later with Bluetooth support
		— or — PC/Laptop/Tablet/UMPC running Windows XP/Vista with a Bluetooth antenna (Internal or dongle)

