

## PET - Pile Echo Tester (Model: PET Bluetooth)



**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 compatible computer via Bluetooth protocol.

The PET system utilizes the pulse-echo method (Compliant to the ASTM D5882-16 & AFNOR P160-2,4 standards). 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. PET Bluetooth is CE certified in conformity to all the essential requirements of RED 2014/53/EU

### 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.

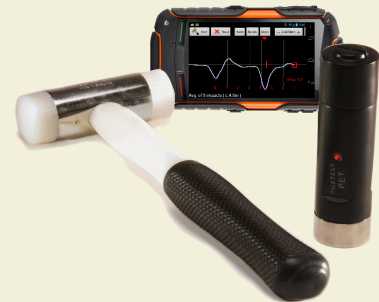
**Computer independence:** PET Bluetooth connects to any existing or future computer. PET Bluetooth also connects to any Android phone or tablet. There is no dependency on an embedded computer (which may quickly become obsolete).

**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 features.

**Robustness:** The PET is specially designed for testing in construction environments, with bullet-proof Lexan. It is IP67 waterproof & carries a three (3) year warranty.

### The PET package includes:

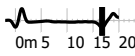
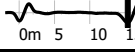
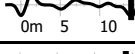
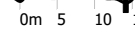
- A digital transducer
- A nylon hammer, spare tips, special putty
- Testing, analysis and reporting software
- Interpretation assistance package
- Unlimited number of software licenses



PET Bluetooth with an Android phone



The PET package

Pile	Depth (m)	Reflectogram	Details	Remark
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

## PET Bluetooth - Technical Specifications

<b>Physical</b>	<b>Housing</b>	Industrial grade transducer enclosed in a highly-durable polycarbonate plastic (Lexan)
	<b>Dimensions</b>	34 mm (diameter) x 120 mm (Length)
	<b>Weight</b>	155gr (Transducer without batteries) 3kg (Shipping)
	<b>Temperature range</b>	-20°C to +55°C (Operating) -40°C to +80°C (Storage)
	<b>Waterproofing</b>	IP67 (Protection against complete submersion in water)
<b>Transducer</b>	<b>Sensitivity</b>	100mV/g
	<b>Linearity</b>	Within 1%, 0 to 50g
	<b>Resonance frequency</b>	30kHz
	<b>Sampling frequency</b>	50kHz
	<b>Sampling resolution</b>	16bit
	<b>Power</b>	2 AAA Alkaline batteries, 3V total. Sufficient for testing approximately 300 piles
<b>Standards</b>	<b>ASTM D5882-16 CE</b>	Meets or exceeds In conformity to all the essential requirements of RED 2014/53/EU
<b>Performance</b>	<b>Pile lengths</b>	2m to 80m (depending on diameter and soil profile. )
	<b>Productivity</b>	Up to 100 piles/hour by single operator (under favorable conditions)
	<b>Storage</b>	Unlimited
	<b>Range</b>	Up to 10m between transducer and computer
<b>Requirements</b>	<b>Computer (Not included)</b>	PC/Laptop/Tablet running Windows XP/Win7/Win10 with Bluetooth hardware — or — Android smart-phones and tablets with Bluetooth hardware

