PET Bluetooth

Pile Echo Tester

PET is used to test the integrity of deep pile foundations. PET Uses the pulse-echo method (PEM) for pile integrity testing (PIT).

- Smart Trigger for ease of use
- Automatic Impulse sorting
- ASTM D5882-16, AFNOR P160-2,4
- Rugged and IP68 waterproof

Applications

For fast and simple testing of deep pile foundations with the pile integrity method of small to medium size piles.

Fast and Simple Pile Integrity Test of Deep Pile Foundations

Reliable

- Specially designed and tested for a hostile construction environment.
- IP68 (Protection against complete, continuous submersion in water).
- 3 years warranty!
- 10 years of free software

Easy to Use

- Usually, no training is needed, and the system can be self-taught in a few hours. (No expensive training days)
- Unique Smart Trigger for fast & easy quality results.
- Wireless Bluetooth connectivity to your tablet or smartphone

Top Performance

- Up to 100 piles/hour can be tested.
- Very low noise level extends the usual limits of the pile integrity test method to longer piles.
- Automatic Impulse sorting

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PET Bluetooth – Technical Specification

Physical		
	Housing	Industrial grade transducer enclosed in a highly durable polycarbonate plastic (Lexan)
	Dimensions	34 mm (diameter) x 120 mm (Length) (instrument only)
	Weight	155g (Instrument only) 3kg (Typical shipping)
	Temperature range	Operating: -20°C to 55°C Storage: -40°C to 80°C
	Waterproofing	IP68 (Protection against submersion in water)

Power		
	Internal	2 X AAA Alkaline batteries, 3V total. Sufficient for testing approximately 300 piles. Easily replaceable in the field.

Standards		
	ASTM D5882 –16	Meets or exceeds.
	AFNOR P160-2,4	Meets or exceeds.
	CE	In conformity with requirements of RED 2014/53/EU

Technical Features		
	Trigger	Variable trigger level
	Smart Trigger	Trigger by impulse shape
	Auto sort	Automatic sorting of best impacts
	Pile Averaging	Averaging all good impacts - **Clears the noise from the reflectogram**
	Site Averaging	Averaging all good impacts - Clears the noise from the reflectogram

Performance		
	Pile lengths	2m to 80m (depending on diameter and soil profile > more…
	Productivity	Up to 100 piles/hour (favorable conditions, single operator)
	Max wireless range	Up to 10m
	Max record impulse	100ms
	Resolution	16bit
	Storage	Up to 1Tera byte

Requirements		
	Computer (Minimum)	Windows XP/Win7/Win10/Win11. or Android smartphone /tablet with the latest Android version or one earlier, with Bluetooth hardware. Full sunlight screen visibility.

Output		
	Reporting	Time/Distance Reflectogram, FFT analysis - Standard
	Language	Multi-lingual user interface and reporting