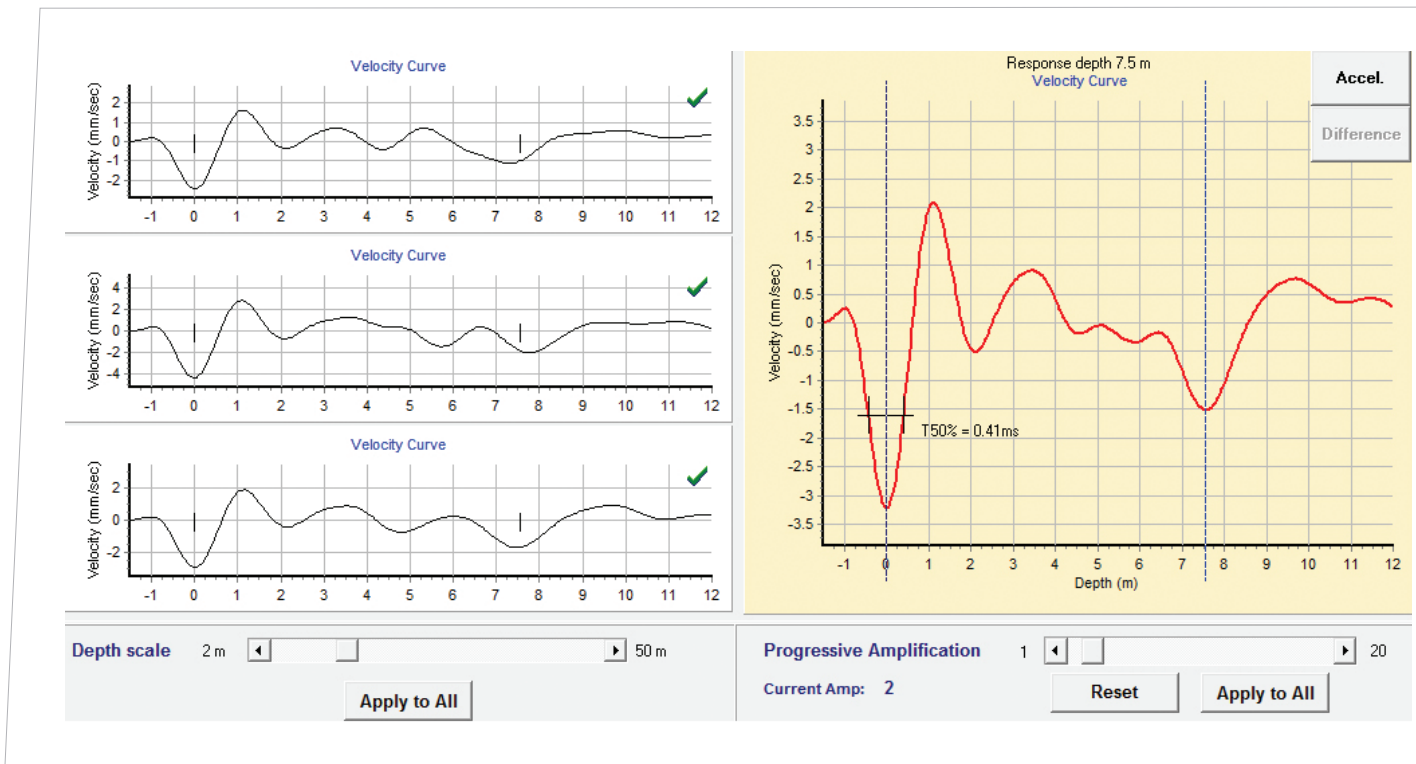




# TECO

Pile integrity tester



## The TECO time domain system is used for checking the integrity of concrete piled foundations.

Using solid state memory the equipment is built for security of data and speed of operation. With a rugged yet lightweight casing, backlit LCD screen and waterproof connectors the TECO unit is easy to transport and can be used in inclement weathers.

A user friendly menu system guides the operator and displays data in an easy to follow format. Data is transferred to the windows based TEAP analysis software through a USB interface.

The site unit can measure pile length and provides the operators with a choice of filters to suit the application. This versatile system can be used to test pre-cast concrete, cast-in-place concrete and timber piles of most dimensions.

## Benefits

- Lightweight and rugged design
- Operates for up to 8 hours on full charge
- Backlit LCD screen for working in dark environments
- Storage for over 700 results
- User friendly software
- Compliant with ASTM D588
- James Fisher Testing Services complete test service available



## How it works

The TEAP2012 software is supplied as standard and provides an easy to use platform for analysing test results and producing reports. The software can tabulate the data and present all response curves either individually or up to 8 test results per page for comparison.

Response curves can be filtered and exponentially amplified to help detect weak responses from depth and signal polarity can be reversed to suit the users' preference.

Piles are tabulated and automatically stored into numerical order. The test results can then be accessed directly from the table.

The user is able to define what variables to include in report tables select different concrete velocities and save commonly used interpretations. Overall site comments can be included with the table and the user's company logo can be stamped on each page.

The print menu enables 4 or 8 plots per page to be presented and depth scales to be normalised.



Teco unit	
Features	Single channel hand held spectrum analyser Daylight viewable screen Tactile large keys for operating with gloves Low power with long battery life Flash memory for instant start up and power down On-site length measurement Rugged lightweight unit with waterproof connectors Up-gradable to twin channel TDR2 system
Keypad	Sealed, colour coded and full alphanumeric keypad, tactile and audio feedback
Operating temperature	0°C to +50°C
Screen	Monochrome LCD transfective with backlight Contrast keypad adjustable, backlit display with auto-off, 122mm x 70mm with protective screen cover
Acquisition	1 channel, 16 bit acquisition at 25KHz sample rate Pre-trigger, auto-ranging gain feature
Frequency range	0Hz to 5000Hz
Storage	700+ results, including 3 data sets per pile with full header information including site, pile no, diameter, operator, transducers and date/time stamp
Numbering	Manual or auto numbering
Signal polarity	Positive or negative
Display	Velocity v time Integrated output from accelerometer in time domain, auto vertical scale User defined horizontal scale in depth m
Filtering	Slow, medium or fast filters to suit depth measurement
Signal velocity	Default 4000m/sec, but can be user defined
Accuracy	Time domain: $\pm 0.5\%$ Velocity: $\pm 5\%$
Power	Battery: 1.2V NiMH rechargeable AA cells Battery indicator and user defined auto power off
Battery life	8 hours + operation on full charge
Charge time	Approx 6 hours
Charging	External wall plug-in charger for 100/110/250VAC inputs (trickle charge) External cigar plug-in charger for 12VDC inputs (fast charge)
Dimensions	L 218mm x W 187mm x D55mm
Weight	1.35Kg

Impulse hammer	
Type	Non-instrumented with fibre glass handle and hard/soft tips
Weight	0.5Kg

Accelerometer	
Type	ICP type with military type IP65 connector and cable
Range	1-10000Hz
Nominal output	100mV/g

**All of our equipment is supplied fully calibrated to UK national standards.**

## TECO user training

We provide full training for all equipment purchased from JFTS. Our training sessions are created and led by our in-house experts, providing you with the skills and knowledge needed to operate the equipment safely, efficiently and with confidence.

We offer classroom and site training within the UK, on-site training overseas and virtual classroom training. No matter what your needs or technical experience we can provide the right training solution for your requirements.

