



# TECO-LITE

Pile integrity tester



**The TECO-Lite is a wireless foundation testing system, used for checking the integrity of concrete pile foundations.**

The TECO-Lite system uses a rugged PDA to receive and analyse data, with a wireless Bluetooth transducer to measure the acceleration response of the foundation.

The PDA screen is clearly visible in bright daylight and is provided with a backlight for night operations if required. Data can be transferred to the windows based TEAP analysis software through a USB interface or Bluetooth for more detailed analysis and reporting.

The flexibility of this system means it can be used to test pre-cast concrete piles, cast-in-place foundations and timber piles of most dimensions. Typical anomalies that may be located include shaft discontinuities, overbreak or bulges, reductions in section or necking and zones of poor quality concrete.

## Benefits

- Wireless transducer
- Rapid testing - up to 300 piles per day
- Lightweight and rugged PDA test unit
- Operates for up to 8 hours on full charge
- User friendly software
- Compliant with ASTM D5882
- James Fisher Testing Services complete test service available



## Software

Featuring TEAP analysis software as standard, data can be tabulated and all response curves presented for reporting either individually or up to 8 test results per page.

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

The user is able to define which variables to include in report Tables, select different concrete velocities and save commonly used interpretation comments.



PDA unit	
Features	Highly sensitive u-blox GPS receiver Digital compass Altimeter / barometer 8m pixel auto focus camera Built in WiFi, bluetooth and cellular WWAN
Memory	1GB RAM & MicroSD/MicroSDHC slot
Storage	4GB iNAND flash
Display	4.7 in FWVGA IPS capacitive multi-touch colour
Keypad	Numeric with 3 programmable function keys
Battery type	3.7V 5200 mAh Li-on warm swappable
Battery life	Up to 8 hours on full charge
Connection	USB A host, USB micro, RS232, 3.5mm headset
Communication	Bluetooth, cellular (WWAN) and wireless LAN
Dimensions	L 191mm x W 80mm x D 35mm
Weight	300Kg
Operating temperature	-20°C to +60°C
Environmental sealing	IP67
Test sealing	TEAP mobile PIT software

Accelerometer	
Accelerometer type	ICP type, nominally 100mV/g
Frequency range	1-10000Hz
Acquisition	1 channel, 16 bit acquisition at 25KHz sample rate Pre-trigger and auto-ranging gain feature
Wireless range	Approx 20m depending on topography
Battery	600mAh, Li-on smart, rechargeable
Battery life	Up to 8 hours operation on full charge
Charge time	Approx 2 hours
Charging	USB charging lead using either AC adapter (100-240VAC, 50/60Hz), DC car charger (12VDC) or PC USB port
Battery indicator	LED indicator on start up

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

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

## TECO-LITE 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.

