

PDA

Pile Driving Analysis

with hard disk, signal processing electronics, a signal conditioning subsystem, two combined sensors for strain and acceleration and cables. The PDA/DLT Windows software for monitoring and reporting has been upgraded and includes many new features to further facilitate signal processing and interpretation.

The Foundation Pile Diagnostic Systems have been designed for the building site environment. The separate PDA conditioner used with a PC allows for optimal flexibility in the field. The reliability of our FPDS systems is evidenced by hundreds of FPDS users all over the world. The PDA equipment can also be used for the purpose of Dynamic Load Testing (DLT).

To accommodate heavy users, Profound has designed a special "Heavy Duty" system. This system is specially tested for harsh field conditions. Also notebook based systems are available.

Advantages of PDA systems

Transducers PDA/DLT system

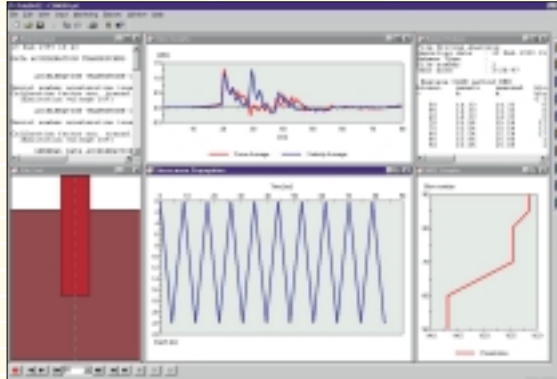
- Compact, reliable, water-resistant combined acceleration/strain transducers, cables (on reel) and connectors;
- Mounting jig to increase transducer life and for protection;
- Junction box for easy mounting and storage of transducer cables.



Combined strain acceleration and transducers.

Signal conditioning unit PDA/DLT

- Modular design. The signal conditioning unit can be used in combination with any available PC;
- Design of hardware is site dedicated, built for maximum reliability and durability under harsh conditions;
- Full digital signal processing;
- Automatic Signal Conditioning;



PDA signals on screen (Windows) .

- Low weight and volume allows hand carrying;
- Battery powered;
- Number of files with digitized signals only limited by hard disk capacity;
- Test box for testing system functions.

Software environment PDA/DLT

- Programmed under Windows environment and designed for use by geotechnical engineers;
- Easy in installation of software;
- High quality (higher sample rate) signal processing;
- Same look, same feel of software. Experience with one option makes working with other options easy;
- Report software available and simple under Windows environment;
- Extensive help options.

Profound services

Annual maintenance contracts are available for PDA systems including regular calibration of sensors, minor repairs, cleaning, and free loan systems.

Profound may carry out PDA services on request and users may send signals causing difficulties to Profound by fax or e-mail for expert interpretation. Profound provides instruction courses and user seminars. Our local agents around the world, who speak your language and understand your needs, are also ready to assist you whenever requested.

Further applications

Pile Driving Analysis provides information about the static capacity during pile driving for the real static capacity. Adequate time should be allowed for soil stabilization, before an instrumented re-drive is attempted. For cast-in-place piles, the concrete strength should be high enough to resist the impact loading. More information about this test method may be found in the separate leaflet on Dynamic Load Testing (DLT) and Statnamic (STN)

For further information:

Profound

P.O. Box 469
2740 AL Waddinxveen
The Netherlands

Phone: +31 (0)182 640964
Fax: +31 (0)182 649664

E-mail:
info@profound.nl
www.profound.nl