ABEM

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Terraloc Pro 2

NEAR SURFACE SEISMICS

The rugged seismograph



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The versatile and rugged seismograph



The ABEM Terraloc Pro 2 is a versatile seismograph that offers a responsive and simplified user interface, to help bring efficiency to a wide range of seismic applications.

Seismic solutions are typically used in civil engineering and infrastructure work to determine the properties of the subsurface of the earth, including depth to bedrock, bedrock quality, soil stability studies, finding fractures and weak zones, and geological mapping. The ABEM Terraloc Pro 2 can be configured for all of these applications, and more.

Typically, the seismograph is triggered by ground vibrations created by a controlled energy source. By recording the time it takes for the seismic waves to reach geophones connected to the seismograph, it is possible to estimate the depth and properties of subsurface features.

The ABEM Terraloc Pro 2 focuses on creating an enhanced user experience. The process to setup measurements has been greatly improved for field crews by offering a wizard mode, keeping the number of steps and settings needed to be configured to a bare minimum.

A Li-ion power supply solution ensures stable operation even if the external batteries are of poor quality. The two internal batteries are hot-swappable providing the opportunity for continuous, uninterrupted power during long survey sessions.



1. Available in 12, 24 and 48 channels (upgradeable)
2. Two additional reference channels
3. Interlink multiple units
4. Analogue or digital triggering
5. Hot swap batteries
6. 6mm shatterproof full-colour screen
7. IP66 housing with built-in GPS
8. No external PC or peripherals required

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ABEM Terraloc Pro 2 is a standalone system and comes with built-in computer, data storage, measurement channels and user interface. Measurements are conducted via a user friendly graphical interface. The system is enclosed in a rugged and robust aluminum casing meeting IEC IP66 classifications, allowing measurements to be made in all situations and environments.

Three different configurations of ABEM Terraloc Pro 2 are available, having 12, 24 and 48 channels. If more channels are needed, several units can be interlinked. ABEM Terraloc Pro 2 can be paired with almost any seismic accessory allowing fully customized solutions to meet every need.

A wide range of high quality cables for land, marine and borehole measurements together with geophones suitable for any type of seismic method are available. Different types of trigger solutions and energy sources can be supplied.

The ABEM Terraloc Pro 2 system has a built-in quad-core computer that runs a stable Linux operating system, and is equipped with connectivity including GPS, WiFi, Ethernet and USB. For diagnostic purposes, service or upgrades the ABEM support team can remotely connect to the instrument, regardless of location.

Advantages

- Easy to operate in the field, built for the toughest conditions
- Perform any kind of seismic survey
- Designed for outstanding data quality
- Solid computing power
- Quick and easy setup, even for non-experts
- Modern connectivity for easy data transfer
- Stable operation regardless of whether internal or external batteries are used



Legacy

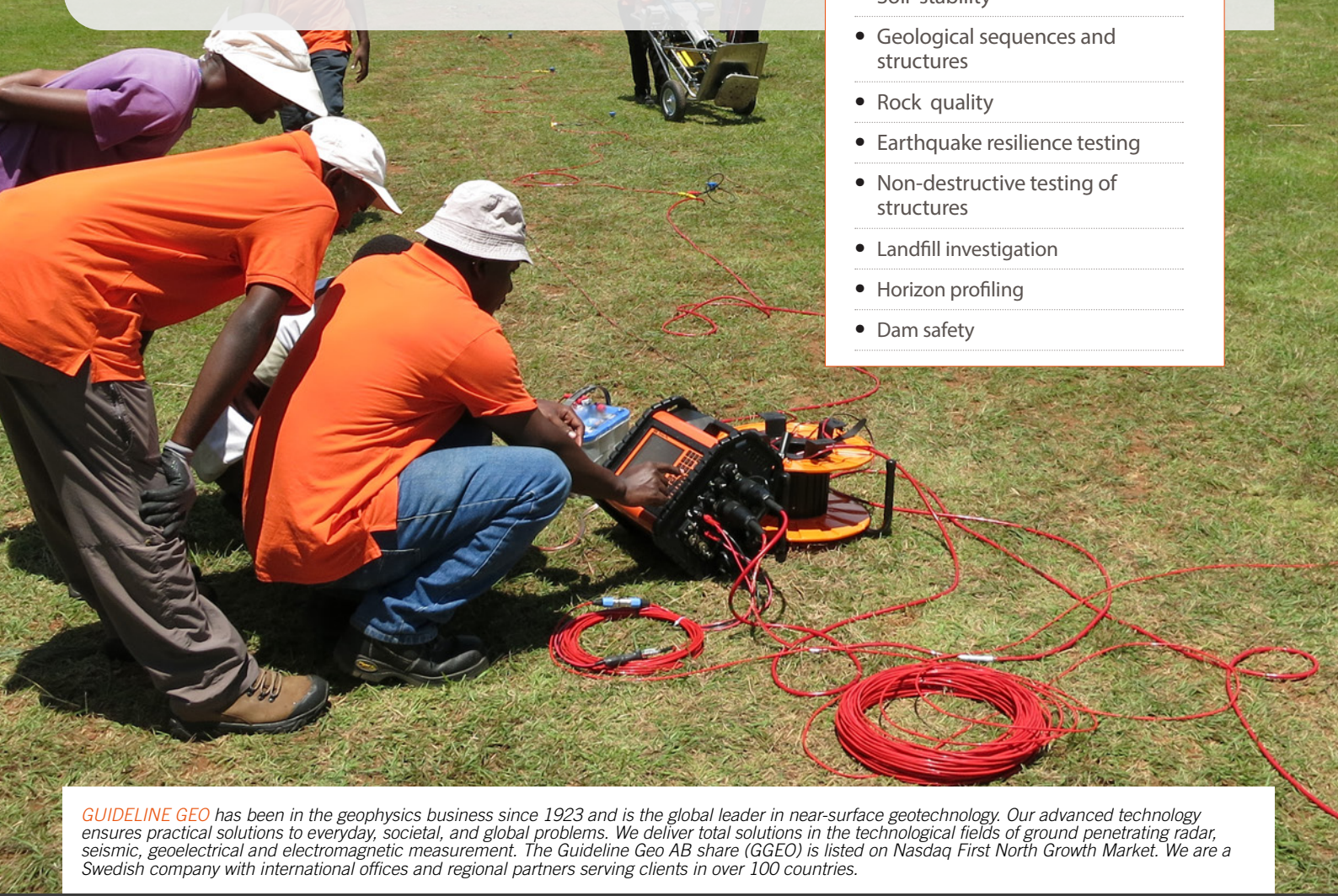
ABEM has been developing seismographs for over 30 years and are still pushing the boundaries of achievement with every model. The ABEM Terraloc Pro 2 continues a great line of near surface seismographs, succeeding innovations like the Terraloc Mk2, Mk3, Mk6, Mk8 and Pro.

With superior specifications and a long list of available accessories the possibilities are almost endless. Whether it is cross-hole testing, MASW, reflection, or a marine refraction survey the ABEM Terraloc Pro 2 is a great companion. The graphical user interface comes with a wizard mode, making it quick and easy to set up the instrument for a survey. For the advanced user, it is still possible to configure and tweak all parameters.

Matched with powerful data processing software, the raw data can be converted to a model so that the user can easily interpret and understand the end results.

Typical Applications

- Depth to bedrock
- Soil stability
- Geological sequences and structures
- Rock quality
- Earthquake resilience testing
- Non-destructive testing of structures
- Landfill investigation
- Horizon profiling
- Dam safety



GUIDELINE GEO has been in the geophysics business since 1923 and is the global leader in near-surface geotechnology. Our advanced technology ensures practical solutions to everyday, societal, and global problems. We deliver total solutions in the technological fields of ground penetrating radar, seismic, geoelectrical and electromagnetic measurement. The Guideline Geo AB share (GGEO) is listed on Nasdaq First North Growth Market. We are a Swedish company with international offices and regional partners serving clients in over 100 countries.

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