

# ABEM Terraloc Pro

SEISMIC SOLUTIONS

Well-rounded seismograph for any application





# Well-rounded seismograph for any application

ABEM Terraloc Pro is a versatile seismograph that can be used with any type of seismic accessory for every possible application.

**Seismic methods** are commonly used for civil engineering and infrastructure studies, where data can easily be compared with complementary geotechnical methods for determining depth to bedrock, bedrock quality, soil stability, finding fractures and weak zones, as well as more traditional geological mapping. ABEM Terraloc Pro can be configured for all of these applications, and more.

The seismograph is triggered by ground vibrations created by an energy source. Time is then recorded accurately until these vibrations have propagated through the ground and can be measured by geophones connected to the seismograph.

ABEM Terraloc Pro can be configured with up to 48 channels in one unit, allowing for many sensors, creating a versatile instrument capable of collecting high resolution data. If more channels are needed, several units can be connected.

The cutting edge technology in the design of the measuring channels gives outstanding resolution of the measured signal both in terms of time and amplitude. The result is incomparable data quality across the instruments' exceptional dynamic range.

## Typical applications

- ▷ Depth to bedrock
- ▷ Soil stability
- ▷ Geological sequences and structures
- ▷ Rock quality
- ▷ Rippability

## Features

- ▷ Built-in computer
- ▷ 12, 24 or 48 measurement channels
- ▷ WiFi, Ethernet, USB and VGA connectivity
- ▷ 100 GB storage unit
- ▷ 2D and 3D measurements
- ▷ Sunlight visible LCD with graphical user interface
- ▷ Up to 480 000 samples and 80 minutes record length
- ▷ Military grade connectors
- ▷ High quality cables and accessories

# ABEM Terraloc Pro



ABEM Terraloc Pro is a standalone system computer, data storage, measurement channels and user interface.

Measurements are conducted using a graphical interface with a look and feel that is familiar. The system is enclosed in an aluminum casing that is rugged and robust, meeting IEC IP66 classifications so that measurements can be made in all situations and environments.

All types of accessories can be connected to ABEM Terraloc Pro, and solutions can be completely customized to every need.

We can supply high quality cables for land, marine and borehole measurements, and geophones suitable for any type of seismic method. Different types of trigger solutions and energy sources can also be configured.

The system's internal computer runs a Windows operating system, and is equipped with connectivity including on-board GPS, WiFi, Ethernet, USB and VGA. If needed, the ABEM support team can remotely connect to the instrument, anywhere that an internet connection is available.



## Advantages

- ▷ Designed for outstanding data quality
- ▷ Graphical user interface with a familiar feel
- ▷ Standalone system makes it easy to operate in the field
- ▷ Quality control before and during measurements
- ▷ Rugged and robust, do measurements anywhere, anytime
- ▷ Georeferenced data using GPS
- ▷ Possible to conduct any type of seismic method



# ABEM Terraloc Pro

## Evolution achieves new levels of perfection

ABEM has been developing seismographs for over 30 years and pushing the boundaries of achievement with each new development. ABEM Terraloc Pro is the latest in a great line of near surface seismographs, succeeding innovations like the Terraloc Mk2, Mk3, Mk6 and Mk8. With superior specifications and a long list of available accessories the possibilities are almost endless. Whether it's cross-hole testing, MASW, reflection, or a marine refraction survey; ABEM Terraloc Pro is a great companion.

The graphical user interface makes it easy to customize all parameters to suit your chosen method and the site conditions, resulting in an optimal set-up for great data quality. 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.



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*Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface. Guideline Geo operates in four international market areas: Infrastructure – examination at start-up and maintenance of infrastructure, Environment – survey of environmental risks and geological hazards, Water – mapping and survey of water supplies and Minerals – efficient exploration. Our offices and regional partners serve clients in 121 countries. The Guideline Geo AB share (GGEO) is listed on NGM Equity.*

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