ABEM

Exact
EXACT GLOBAL TEKNOLOGI

Terraloc Pro 2

NEAR SURFACE SEISMICS

The rugged seismograph

Technical Specification

The ABEM Terraloc Pro 2 is a versatile seismograph designed for a wide range of applications including geological mapping, determining depth to bedrock, bedrock quality, soil stability and finding fractures and weak zones.

General

Power	Hot-swappable 2x 11.25 V, 6.4 Ah internal Li-Ion power pack 10-28 VDC external power
Power consumption	30/60 W (idle/acquisition)
Ambient temp	-20 °C to +55 °C (operating) -30 °C to +70 °C (storage)
Casing	Rugged aluminum alloy, meets IEC IP66
Weight	12 channels: 9.5 kg 24 channels: 10 kg 48 channels: 11 kg
Dimensions	39x21x32 cm (WxLxH)
Connectors	12 channels: 1x NK-27 24 channels: 2x NK-27 48 channels: 2x KPT 55



Receiver

Number of channels	12, 24 and 48 (Upgradeable)
Additional channels	Easily obtained by linking two or more units together
Reference channels	Yes, 2 additional independent
Sampling rate	100 Hz - 50 kHz (20 µs - 10 ms) (user selectable)
Record length	Up to 480 000 samples /ch. equivalent to: 5,1 ms - 80 min (user selectable)
Pre-trig record	0-100 % of record length (user selectable)
Delay time	Up to 2 minutes (user selectable)
Stacking	32 bits, up to 999 impacts (user selectable)
Unstack	Remove last shot from stack (user selectable)
Trigger inputs	Trigger coil, make/break, geophone and TTL
A/D converter resolution	24 bits
Dynamic range	(theoretical/measured) 144 dB / >120 dB
Input voltage range	0.5 Vpp, 5 Vpp, 12.5 Vpp (selectable)
Input gain	0 dB, 12 dB, 24 dB, 36 dB, 48 dB (selectable)
Input impedance	3 kOhm, 20 kOhm, 20 MOhm (selectable)
Frequency range	DC to 20 kHz
Total harmonic distortion	0.0005 %
Crosstalk	-120 dB
Noise monitor	Amplitude
Anti-alias filters	Set automatically based on sampling rate

Post recording features

Digital filters	Band-pass, low-pass, high-pass, band-reject and DC offset removal
Spectrum analysis	Any single trace, FFT analysis
Velocity analysis	On-screen analysis of refractor velocity
First arrivals picking	Automatic or manual
	Times can be saved with record
Pre-stack correlation	Yes, cross-correlation with reference or any other channel

Integrated Field PC

Processor	Low power Intel Atom with 4 cores of 1.9 GHz
Operating system	Linux Ubuntu
Internal RAM	4 GB
Hard disk capacity	100 GB or greater
Display	8,4“ Active TFT LCD, full colour, daylight visible, resolution of 800x600
I/O port	3xUSB 2.0 ports
Network interfaces	1x Gigabit Ethernet
	IEEE 802.11 a/b/g, built-in WLAN antenna
	Optional mobile modem
GPS	Yes, built-in



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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