

ABEM Terraloc Pro

SEISMIC SOLUTIONS

Well-rounded seismograph for any application

ABEM Terraloc Pro 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 2x 12 V, 8 Ah internal NiMH power pack 10-34 VDC external power

Power consumption 30/60 W (idle/acquisition) Ambient temp -20° C to $+55^{\circ}$ C (operating)^{1,2} -30° C to $+70^{\circ}$ C (storage)³

Casing Rugged aluminum alloy, meets IEC IP66

Weight, 24 channels 10 kg Weight, 48 channels 11 kg

Dimensions (WxLxH) 39x21x32 cm
Connectors 12 channels: 1x NK-27
24 channels: 2x NK-27
48 channels: 2x KPT 55

GPS 50 channels SirFstarIII chip

Note 1: Measuring speed may be reduced in high ambient temperature combined with high output power

Note 2: The performance of the LCD is not guaranteed below 0°C

Note 3: Non condensing

Receiver

Number of channels 12, 24 and 48

Additional channels Easily obtained by linking two or more units together

Up-hole 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)

Stacking32 bits, up to 999 impacts (user selectable)UnstackRemove last shot from stack (user selectable)Trigger inputsTrigger 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 remove DC offset

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 1.6 GHz

Operating system Windows XP Pro

Internal RAM 2 GB

Hard disk capacity 100 GB or greater

Display 8,4" Active TFT LCD, full colour, daylight visible, with 6 mm shatterproof glass,

resolution of 800x600

External displayport VGA output

I/O port Wi-Fi 3xUSB 2.0 ports

Network interfaces 1x Gigabit Ethernet in RJ-45, 2x TP-10/100 in KPT08

WLAN interface a/b/g with built-in antenna





World Leading Brands

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