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**  
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 ºC (operating)

**Ambient temp**  
-30 °C to +70 °C (storage)

**Casing**  
Rugged aluminum alloy, meets IEC IP66

**Weight, 24 channels**  
10 kg

**Weight, 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

**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)

**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 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 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

WLAN interface
- IEEE 802.11 a/b/g, built-in antenna

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