



Terraloc Pro - Your guarantee for high-quality fieldwork

A STAND-ALONE SEISMOGRAPH, RUGGED FOR DEMANDING ENVIRONMENTS:

A self-contained instrument, designed to cope with rough field conditions.

VERSATILE & FUTURE-PROOF: You don't know what your next job will demand, with the Terraloc Pro you are equipped to successfully take on a wide range of seismic surveys.

SAVES VALUABLE FIELD TIME: Terraloc Pro offers built-in diagnostics and remote management as well as vendor assisted support over the net.

HIGH QUALITY DATA: Don't compromise, return from the field with superior data, Terraloc Pro delivers top class performance.

SECURE INVESTMENT: Terraloc Pro is a product for the future, it allows for add-on of new functionality and seamless expansion.

The ABEM Terraloc line of seismographs has a long and well-known reputation for ease of use and reliability under the toughest field conditions. With this brand new Terraloc Pro instrument, ABEM has stretched the specification and incorporated several new features. Well

working software functionality has been inherited from its predecessor in order to save time and effort for the user. All together, this new instrument is a high quality product, designed to meet demanding field requirements.

General

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|-------------------------------------|---|
| No. of channels | 12, 24 and 48 |
| Additional channels | Easily obtained by linking two or more units together |
| Up-hole channel | Yes, 2 additional independent |
| Sampling rate (selectable) | 50 sps – 50 ksp/s (20 µs - 20 ms) |
| Record length (selectable) | Up to 480 k samples / ch. equivalent to: 9,6 s - 80 min |
| Pre-trig record (selectable) | 0 – 100 % of record length |
| Delay time | Up to 2 minutes |
| Stacking | 32 bits, up to 999 impacts |
| Unstack | Remove last shot from stack |
| Trigger inputs | Trigger coil, make/break, geophone, TTL |
| A/D converter resolution | 24 bits |
| Dynamic range | (theoretical / measured) 144 dB / >120 dB |
| Max input signal/ impedance | 0,5 Vpp/3 kΩ, 5 Vpp/20 kΩ, 12,5 Vpp/3 kΩ, hi impedance |
| Frequency range | DC to 20 kHz hi imp. |
| Total harmonic distortion | 0,0005% |
| Crosstalk | -120 dB |
| Noise monitor | Amplitude |
| Anti-alias filters | set automatically based on sampling rate |
| Connectors | NK-27 / KPT 55 |
| GPS | Yes |

Post recording features

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|-------------------------------|--|
| Digital filters | Band-, low-, high- pass band-reject, 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 ch. |

Processor, RAM and hard disk

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|------------------------------|---|
| Processor | Low power Intel Atom, 1,6 GHz |
| Operating System | Windows XP Pro |
| Internal RAM | 2GB (DDR SO-DIMM module) |
| Hard disk capacity | 100 GB or greater |
| Display | 8,4" Active TFT LCD, full colour, daylight visible, 800x600 res. |
| External display port | VGA output |
| I / O port | 3 x USB 2.0 ports |
| Network interfaces | 1 x IEEE 802.3 TP-10/100/1000 RJ-45 IP 67 2xTP-10/100 KPT 08 Wlan antenna |

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|---------------------------------|---|
| Power | 10 – 34 V DC external power 12 V internal battery 30/60 W (man/acq) |
| Power consumption | |
| Ambient temp (operating) | -20 to + 55 °C |
| Ambient temp (storage) | -30 to + 70 °C |
| Casing | Rugged Al alloy, meets IEC IP 66 |

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|-------------------------------|-----------------|
| Weight, 24 channels | 10 kg |
| Weight, 48 channels | 11 kg |
| Dimensions (W x L x H) | 39 x 21 x 32 cm |

To order, please specify

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|--------------------------------------|------------|
| Terraloc Pro, 12 CHANNEL UNIT | 33 5000 12 |
| Terraloc Pro, 24 CHANNEL UNIT | 33 5000 14 |
| Terraloc Pro, 48 CHANNEL UNIT | 33 5000 16 |

Each unit includes:

- Terraloc Pro instrument (of chosen type)
- Reference manual
- Trigger cable 250 m on reel, Trigger coil, Accessories & Tools kit
- Windows XP compatible USB keyboard and mouse
- Software SeisTW and sample records
- Transport case (plywood)

Field Accessories (ordered separately)

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|--|------------|
| Seismic cable 24 take-outs at 5 m | 36 0001 96 |
| Extension cable 160 m (56 conductors) | 36 0001 97 |
| Seismic cable 12 take-outs at 12.5 m | 36 0001 26 |
| (other cable configurations also available) | |
| Extension cable, 60 m (26 conductors) | 36 0001 27 |
| Extension cable, 160 m (26 conductors) | 36 0001 28 |
| Portable reel | 38 3001 52 |
| 10 Hz vertical geophone | 39 1000 62 |
| 10 Hz horizontal geophone | 39 1000 93 |
| 4.5 Hz vertical geophone | 39 1000 63 |
| 4.5 Hz horizontal geophone | 39 1000 64 |
| 4.5 Hz 3-D geophone | 39 1000 85 |
| 100 Hz vertical geophone (land) | 39 1000 77 |
| 100 Hz vertical geophone (marsh) | 39 1000 78 |
| Shock plate | 33 0010 18 |
| Hi-voltage CB 20 VA shotbox | 39 9000 23 |
| Backpack carrying frame | 33 0001 98 |

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