

# Terraloc Mk 8



- A powerful yet portable seismograph, Windows XP for both the field and the office
- USB 2.0 ports for memory stick
- Memory card reader
- ABEM SeisTW, software for data acquisition
- Ideal for all types of applications
- Your faithful companion wherever your job takes you

# ABEM

# Technical Specification **ABEM Terraloc Mk 8**

## General

Number of channels (smaller unit)	4-24 in steps of 4
Number of channels (larger unit)	4-48 in steps of 4
Additional channels	Easily obtained by linking two or more units together
Up-hole channel	Yes
Sampling rate (selectable)	25, 50, 100, 200, 500, 1000 & 2000 $\mu$ s
Record length (selectable)	128, 256, 512, 1024, 2048, 4096, 8192 or 16384 samples per trace equivalent to: 3,2 ms – 32,7 s
Pre-trig record (selectable)	0 – 100 % of record length
Pre-stack correlation	Yes, cross correlation with reference or any other channel
Delay time	Related to sampling rate May be set (for example) from: 0 – 0,8 s at 25 $\mu$ s sampling rate 0 – 131 s at 2ms sampling rate
Stacking	32 bits, up to 999 impacts
Unstack	Remove last shot from stack
Trigger inputs	Trigger coil, make/brake, geophone, TTL
A/D converter resolution	21 bits
Dynamic range (theoretical / measured)	126 / 114 dB
Max input signal	500 mV p-p
Frequency range	1-4000 Hz (at 25 $\mu$ s sampling rate)
Total harmonic distortion	- 80 dB
Crosstalk	- 86 dB
Input impedance	3 k $\Omega$
Noise monitor	Amplitude

Analog filters	
- Low cut (selectable)	12 or 24 dB / octave 16 steps from 12 to 240 Hz
- Notch	50 or 60 Hz specify when ordering
- Anti-aliasing	set automatically based on sampling rate

## Post recording features

Digital filters	Band-pass, low-pass, 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
Correlation	cross correlation

## Processor, RAM and hard disk

Processor	Low power AMD LX800, 500 MHz
Operative System	Windows XP
Internal RAM	1GB (DDR SO-DIMM module)
Hard disk capacity	at least 60 GB (2,5 " EIDE drive)
Memory card reader	SD, Compact flash, MMC, Memory stick, Smart media etc.
Display	8,4 " Active TFT LCD, full colour, daylight visible
External display port	VGA output
I / O port	3 USB 2.0 ports

Network interface	Ethernet 10 / 100 Mbps, RJ-45 IP 67
Power	10 – 30 V DC external battery

Power consumption	36 W (24 ch) or 60 W (48 ch)
Ambient temp (operating 24 ch)	0 to + 50 °C
Ambient temp (operating 48 ch)	0 to + 45 °C
Ambient temp (storage)	- 40 to + 80 °C
Casing	Rugged cast aluminium, meets IEC IP 66
Weight, 24 channels	16 kg
Weight, 48 channels	23 kg
Dimensions, 24 ch unit	480x260x330 mm
Dimensions, 48 ch unit	480x260x470 mm

## To order, please specify

MARK 8, 12 CHANNEL SYSTEM	33 5000 12
MARK 8, 24 CHANNEL SYSTEM	33 5000 24
MARK 8, 48 CHANNEL SYSTEM	33 5000 48

## Each system includes:

Terraloc Mk8 instrument of chosen type  
Reference manual  
Trigger cable 250 m on reel, Trigger coil, Accessories & Tools kit  
Windows XP compatible USB keyboard and mouse  
Program and sample records.

## Field Accessories (ordered separate)

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 (other cable configurations also available)	36 0001 26
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
Extra spares kit for remote locations	33 0011 88

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*Please email, fax, phone, or write today for the latest technical information and prices*

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