



THE INTELLIGENT VIBRATION MONITOR

Vibraloc is a full waveform vibration monitor with an integrated tri-axial set of geophones. An additional (fourth) channel allows monitoring of air-pressure from blasting using an optional externally connected microphone.

An add-on expansion module provides GSM functionality and enables remote connectivity. Should the level of vibrations exceed a safe level, personnel could be notified by an SMS message.

Compact and versatile - Fits into your pocket!

Unsurpassed measurement characteristics for peak performance

Modular construction to meet future developments

Two standard alkaline D-cells provide power for up to 3 weeks on site

Easy to use thanks to on-screen menu driven operation

A solid aluminium block to withstand your environmental requirements

Receiver

Channels	3 geophone channels, 1 microphone channel for air-pressure monitoring
Standard sensors	3 built-in geophones
Optional sensors	1 weatherproof air blast microphone
Frequency range	2-250 Hz (-3 dB)
Record length	Fixed length or Auto mode 2 - 100 s, expands automatically up to 1 - 1000 s
Recording modes	Event mode Peak value mode
Pretrig	0.5 s
Sampling frequency	User selectable: 100, 500, 1000, 2000 or 4000 Hz
Measuring range	+ /- 250 mm/s
Resolution	Better than 0.02 mm/s up to 31 mm/s Better than 0.1 mm/s up to 250 mm/s
Trigger level	User selectable: 0.2 - 200 mm/s, threshold increment 0.01 mm/s

Memory

Event / Histogram memory	Up to 800 event capacity depending on if histogram mode is activated
Waveform memory	1000 s waveform recording at 1000 sps

General

Power supply	Internal: Two alkaline LR20 batteries, easily replaceable
Internal battery lifetime	2 - 3 weeks at 20°C
Ambient Temperature Range	- 20°C to + 60 °C operating
Casing	IP66
Display	LCD, 4 x 20 characters
Keyboard	5 keys for easy navigation in menu system
Connectors	1 x RS232 for communication and external power supply Optional external microphone
Dimensions (W x L x H)	86 x 178 x 67 mm
Weight	1.75 kg incl. batteries
CE compliant	

Expansion Module (optional)

Inputs	3 external individual 4.5 Hz geophone inputs Microphone input Input for external 3D geophone
GSM communication	SMS messaging for exceeding of predefined peak level Up to 8 cellular phone numbers 2 programmable alarm levels

Software

Standard PC software	Vibraloc PC: Software for remote control and file transfer to PC Vibraloc Event Presentation: For display, processing, interpretation, filtering and analysis of acquired time series data
Optional PC software	Vibraloc Peak: Reporting of continuous peak values per table and diagram / chart Vibraloc Event Analysis: Software for detailed analysis of event files

With reservations for changes; our products undergo continuous development

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Field Equipment

Consult your local ABEM distributor for full details of the various configurations available for you.