Blastmate[®]III

Full-Featured, Advanced Vibration and Overpressure Monitor

Range of Applications:

- Blast-monitoring for compliance
- Near-field blast analysis
- Pile driving
- Construction activity
- Demolition activity
- Train monitoring
- Bridge monitoring
- Structural analysis
- Underwater blast monitoring
- 4 or 8 channel data aquisition
- Remote monitoring -Autocall Home[™]

Consultants, Engineers and Contractors the world over recognize the **Blast**mate III as the most versatile and most reliable full featured vibration monitor available. It provides all of the industry-leading features of Instantel's **Mini**mate Plus[™], conveniently packaged with a full keyboard and a high-resolution printer. This allows you to setup, add notes and print complete event reports in the field, without a computer.

Versatile

With standard features like Histogram Combo[™] monitoring mode, zero deadtime between events, and flexible sample rates up to 65 KHz, the **Blast**mate III provides you with control and confidence to monitor reliably in any situation. For added versatility, you have the option to add 4 more channels and extra memory, providing two complete standard seismographs in a single package.

For even more flexibility, use **Blast**ware[®] Advanced Software to configure the velocity and microphone channels as independent date acquisition channels for a variety of sensors including hydrophones, accelerometers and crack monitors.

Easy to use

The features and versatility of the **Blast**mate III set it apart, but the fact that it is also easy to use makes it truly revolutionary. The **Blast**mate III's dedicated single use function keys, backlit LCD and simple menu-driven operation make setup and operation quick and easy, even for inexperienced personnel.

Tough

Like its **Blast**mate II predecessor, the **Blast**mate III has been built to survive, with a fully sealed top panel, non-corrosive industrial grade connectors and sealed electronics, all packed in a rugged, water-resistant case.

Blastmate III - Reliability and versatility for any monitoring application.





Key Features

- Fast high-resolution thermal printer for event reports in the field without the need for a computer.
- Full keyboard simplifies entry of job-specific notes and information.
- Dedicated function keys and intuitive menu-driven operation enable quick and easy setup.
- Histogram Combo mode allows capture of full waveform records while recording in histogram mode.
- Sample rates from 1024 to 16K samples per second per channel up to 65K available on a single channel.
- Available 8-channel option allows for 2 standard triaxial geophones and 2 microphones to be used on a single **Blast**mate III.
- Zero dead-time between events means you never miss an event.
- Any channel can be matched to a wide variety of sensors geophones, accelerometers, or hydrophones.

On the practical edge of technology

Blastmate[®]III

General Specifications	Blastmate III
Channels Vibration Monitoring (with Standard	Microphone and Triaxial Geophone or 4 independent user-configurable channels (two Microphones and two Triaxial Geophones or 8 independent channels with optional 8-channel upgrade)
Triaxial Geophone) Range Resolution Accuracy Transducer Density Frequency Range Air Overpressure Monitoring Weighting Scales Linear Range Linear Range Linear Resolution Linear Accuracy Linear Frequency Response A-weight Range	Up to 254 mm/s (10 in/s) 0.127 mm/s (0.005 in/s) or 0.0159 mm/s (0.000625 in/s) with built-in preamp +/- 3% @ 15Hz 2.13 g/cc (133 lbs/ft ³) 2 to 250 Hz Linear or A-weight 88 to 148 dB (500 Pa (0.072 PSI) Peak) 0.25 Pa (0.0000363 PSI) 0.3 dB at 30 Hz and 127 dB 2 to 250 Hz 50 to 110 dBA
A-weight Resolution	0.1 dBA
Waveform Recording	
Record Modes Seismic Trigger Acoustic Triggers Linear A-weight Sample Rate Record Time AutoRecord Time Cycle Time Storage Capacity Full Waveform Events Event Summaries	Manual, Single-shot, Continuous, Programmed start/stop 0.125 mm/s to 254 mm/s (0.005 to 10 in/s) 100 to 148 dB 55 to 110 dBA 1024 Hz to 16 kHz per channel (independent of record time), up to 65 kHz in single-channel mode with advanced software (maximum 8 kHz per channel for 8 channels) 1 to 100 seconds (programmable in one-second steps) or 500 seconds plus 0.25 seconds pre-trigger 1 to 100 seconds (programmable in one-second steps) or 500 seconds plus 0.25 seconds pre-trigger Recording uninterrupted by event processing - No dead time 300 one-second events at 1024 Hz sample rate (1500 event capacity with optional memory upgrade) 1750 (8750 event capacity with optional memory upgrade)
Histogram Recording	
Record Modes Recording Interval Storage Capacity	Histogram and Histogram Combo (monitor captures triggered waveforms while recording in Histogram mode) 2, 5 or 15 seconds; 1, 5 or 15 minutes 46,656 intervals - 3 days at 5-second intervals or 102 days at 15 minute intervals (with memory upgrade - 15 days at 5-second intervals or 540 days at 15 minute intervals)
Physical Specifications	
Dimensions Weight Battery User Interface Display Printer PC Interface Auxillary Inputs and Outputs Environmental Printer/LCD Operating Temperature Electronics Operating Temperature Remote Communications	 269 x 355 x 165 mm (10.6 x 14.0 x 6.5 in) 6.4 kg (14 lbs) Rechargeable 6V sealed gel cell - capacity for 30 days of continuous monitoring 63 domed tactile keys including full keyboard and dedicated keys for common functions 4-line x 20 character, high contrast, backlit LCD High resolution thermal plotter RS-232 External Trigger, Remote Alarm -10 to 50°C (14 to 122°F) -20 to 60°C (-4 to 140°F) Compatible with Telephone, GSM, Cellular, RF, Satellite and Short-haul modems. Automatically transfers events when they occur through Autocall Home feature.
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CERTIFIED TO THE ISO 9001 QUALITY STANDARD