

Minimate™

Low-Cost Vibration and Air Overpressure Monitor

Range of Applications:

- Blast-monitoring for compliance
- Remote monitoring

The **Minimate** is a cost-effective solution for day-to-day compliance monitoring of blasting operations, and has become the mini-seismograph of choice for blasting professionals worldwide. With the quality and rugged reliability consistently provided by InstanTel, the **Minimate** is an economical seismograph that everyone can afford.

Easy to use

The **Minimate** offers a complete compliance seismograph in a compact package that weighs less than 1.5 kg (3 lbs).

The seven-key tactile keypad and on-board LCD, with a clearly structured, menu-driven interface, give you the complete control you need to quickly and easily prepare the instrument for monitoring.

Recorded events are easily downloaded to a computer via a standard RS-232 interface using InstanTel's **Blastware®** Event Management Software. **Blastware** also provides the tools you need to manage event files, with the ability to print both event reports and FFT frequency analysis.

For added flexibility, the **Minimate** can print event reports in the field without a computer by simply connecting it to any InstanTel **Blastmate®** II monitor.

Versatile

Even with its small size, the **Minimate** still provides ten continuous, 24-hour days of battery life and the storage capacity for up to 40 blast events. And with InstanTel's Auto Record mode, the monitor continues to record for up to twenty seconds, as long as activity periodically remains above the trigger level.

The **Minimate** package includes an external three-component sealed geophone, which allows the flexibility for both burial and surface-mount installations.

Minimate - Simple, effective blast monitoring from InstanTel.



Key Features

- Small, rugged package for portability and easy setup.
- Easy-to-use keypad with intuitive menu-driven operation.
- Rechargeable gel cell battery with 240 hour capacity (continuous monitoring).
- 1024 Hz sample rate for compliance accuracy from 2 to 250 Hz.
- Non-volatile memory with 40 event storage capacity.
- Auto Record mode continues to record event as long as vibration is above trigger level for up to 20 seconds.
- Ability to print reports directly to **Blastmate** II or compatible printers without a computer.
- Timer mode allows you to record only when you want to.



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General Specifications

Minimate

Channels	Microphone and Triaxial Geophone
Vibration Monitoring	
Range	Up to 127 mm/s (5 in/s)
Resolution	0.125 mm/s (0.005 in/s)
Accuracy	+/- 1% @ 15Hz
Transducer Density	2.08 g/cc (130 lbs/ft ³)
Frequency Range	2 to 250 Hz
Air Overpressure Monitoring	
Weighting Scales	Linear
Range	100 to 142 dB (250 Pa (0.036 PSI) Peak)
Resolution	2 Pa (0.00029 PSI)
Accuracy	0.4 dB at 30 Hz and 127 dB
Frequency Response	2 to 250 Hz

Waveform Recording

Record Modes	Manual, Single-shot, Continuous, Programmed start/stop
Seismic Trigger	0.25 mm/s to 127 mm/s (0.01 to 5 in/s)
Acoustic Triggers	106 to 142 dB
Sample Rate	1024 Hz per channel (independent of record time)
Record Time	1 to 10 seconds (programmable in one-second steps)
AutoRecord Time	1 to 20 seconds
Cycle Time	Less than 5 seconds per second of recording time
Storage Capacity	40 one-second events

Physical Specifications

Dimensions	81 x 91 x 160 mm (3.2 x 3.6 x 6.3 in)
Weight	1.4 kg (3 lbs)
Battery	Rechargeable 6V sealed gel cell - capacity for 240 hours continuous monitoring
User Interface	7-key keypad with domed tactile keys
Display	2-line x 20-character LCD
PC Interface	RS-232
Environmental	
LCD Operating Temperature	-10 to 50°C (14 to 122°F)
Electronics Operating Temperature	-20 to 60°C (-4 to 140°F)
Remote Communications	Compatible with Telephone, GSM, Cellular, RF, Satellite and Short-haul modems



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On the practical edge of technology

CERTIFIED TO THE ISO 9001 QUALITY STANDARD