

# NOMIS MINI-GRAPH 7000



The NOMIS Mini-Graph 7000 is the mini seismograph you've been looking for! It offers the same quality, accuracy and reliability of the conventional NOMIS seismograph, but in a very compact and convenient size. The Mini-Graph's state of the art battery capability, instant read out, easy data transfer and simple field set up and operation make this the mini seismograph to meet your monitoring needs.

## Features

- ⊕ Instant LCD readout for all blast results
- ⊕ Sturdy case makes for completely self contained unit
- ⊕ Case mounted microphone with ground spike alternative
- ⊕ Standard 175+ event memory, optional 300+ memory
- ⊕ Completely waterproof for continuous all weather operation
- ⊕ Standard RS-232 port for downloading with downloading software in Windows included
- ⊕ Less expensive alternative for multi location monitoring



**Exclusive Distributor: CEP SERVICES PTE LTD**

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## NOMIS Mini-Graph 7000

### Giant Features in a Small Package

The NOMIS Mini-Graph 7000 is one giant step ahead in seismic monitoring technology. From the sturdy aluminium housing to the unbreakable carrying case, this instrument is designed for field use.

#### Reliable Field Operation

The reliability of any mini series seismograph depends on the capability of its power source. The NOMIS Mini-Graph battery system incorporates the latest technology, extending the length of each charge while providing more power source options.

The internal rechargeable battery of the Mini-Graph is designed to last for at least 10 days. It also has an internal alarm timer that allows the operator to program operating hours to further conserve battery life. The unit can also be connected to an automobile battery or solar panel that will allow extended operation over several months.

Regardless of the power source, the Mini-Graph always displays battery voltage on the LCD display. And, to insure data storage, a non-volatile memory saves all data no matter what happens to the battery.

#### Instant Data Readings

The Mini-Graph can stand alone with no additional accessories needed for on-site readings. Blast data are available instantly on the Mini-Graph's easy-to-read LCD display.

It is easy to print records on regular printer paper by transferring data from the Mini-Graph to a personal computer or laptop. A personal computer can also be used to program other information such as client location, operator or comments on the Mini-Graph record.

This information can also be changed or added when the record is printed using the Mini-Graph waveform software included at no charge.

#### Easy Field Installation

Field installation is fast and simple. A push button deactivation switch on the microphone or keypad allows the operator to install or remove the instrument without recording false triggers.

Because the Mini-Graph is water tight, it can be used in all types of weather conditions. An optional external transducer box allows for easier coupling to the recording medium. A standard microphone is provided with a five foot (2m) cable to position the microphone for proper sound measurement. A rugged, unbreakable carrying case is provided which also doubles as a microphone mast support and storage box for long term monitoring.

The NOMIS Mini-Graph with its unsurpassed battery capability, instant data reading and simple field operation is the mini seismograph that you've been looking for. For more information or a demonstration, contact CEP Services Pte Ltd

## SPECIFICATIONS

#### Seismic

|                               |   |
|-------------------------------|---|
| Frequency Response....        | 2 to 400 Hz (1 Hz optional)   |
| Seismic Sensors.....          | Accelerometers or geophones are available   |
| Sample Rate.....              | Selectable from 32 to 1024 samples per second per channel (2048 optional)   |
| Standard Recording Range..... | X2 Gain .005-10 IPS( .127-254 mm/s)   |
| Optional Range.....           | X1 Gain .01-20 IPS( .254-508 mm/s)  |
|                               | X4 Gain .003-5 IPS( .064-127 mm/s)  |
|                               | X8 Gain .001-2.5 IPS( .032-63 mm/s)   |
| Trigger Levels.....           | 0025 to 1.14 IPS (.06 to 28.9 mm/s)   |
| Calibration Test.....         | A dynamic transducer test performed automatically after each event. The test results are stored in the summarized data. |

#### Sound

|                        |   |
|------------------------|---|
| Frequency Response.... | 2 to 400 Hz   |
| Microphone.....        | Ceramic element rated to at least 160 dB. User selectable   |
| Recording Ranges.....  | 100 to 142 dB (.02 to 2.50 millibars)   |
|                        | 106 to 148 dB (.04 to 5.12 millibars)   |
| Trigger Levels.....    | 106 to 148 dB   |
| Calibration Test.....  | An electronic test of the microphone is performed with the seismic test and is stored in memory along with the seismic test |

#### General

|                                    |  |
|------------------------------------|--|
| Data Channels.....                 | 1 acoustic and 3 seismic channels  |
| Memory.....                        | Solid state with all summary, setup, and recorded data retained with power off. A lithium backup battery retains data if primary power fails   |
| Timer Mode.....                    | Allows an instrument to be active only during selected hours on a daily basis.   |
| Display.....                       | High contrast LCD has two lines of 40 characters   |
| Keyboard.....                      | 5 keys for entering setup data and operating commands  |
| Battery.....                       | Internal 6 volt rechargeable, operating time 10 days. Several months' operation using a small solar cell or automobile battery   |
| Operating Temperature... Case..... | 0 to 130 degrees F (-18 to 54 degrees C)   |
|                                    | Heavy gauge aluminium for effective electrical shielding and rugged protection, (stainless steel optional) Case is sealed for shallow burial.  |
| Size.....                          | Approximately 8" x 4" x 2.5"   |
| Weight.....                        | Approximately 3.5 lbs, (1.6 kg) without accessories  |
| Record Storage.....                | The full waveform signature is stored in solid state memory for up to 340 events. Summarized data includes the event time, date, battery voltage, peak measurements (including frequencies), unit serial number and client/location data |
| Recording Units.....               | Selectable, English (U.S.) or metric   |
| Recording Time.....                | 1 to 42 seconds depending on sample rate   |
| RS232 Serial Port.....             | Data may be downloaded and setup commands may be uploaded directly by computer or remotely by modem  |
| Baud Rate.....                     | Baud Rate is selectable from 1200 to 38.4 K  |

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