

Monitor Modes

Three monitoring modes are available with the Mini-SuperGraph II: SELF TRIGGER, BAR GRAPH, and COMBO.

If you want to modify the settings for a monitoring mode, select that mode, press the ↓ button to select EDIT and press ENTER. With the EDIT option, a different screen will display each time you press ENTER. Press ENTER to keep displayed data or use the ↑ and ↓ keys to change a setting (use the + and - keys to move the cursor from right to left). Standard selections are highlighted on each screen. Continue pressing ENTER to proceed through all of the questions. For numeric options, use the ↑ and ↓ arrow button to change the numbers.

When the SAVE SETUP screen displays at the end, choose YES to can save the current settings for future use. Enter up to 8 characters for the name of the saved data (use at least one character for this name). These saved settings will appear on the NOMIS MAIN MENU under option number 4: SAVED SETTINGS. You can save a maximum of 14 settings.

Feature	Description
	this code for use in a computer connection using SuperGraphics.
Monitor Log	<p>Use this option to view the dates and times that the seismograph was monitoring. For the Mini-SuperGraph II, the only valid option is VIEW MONITOR LOG. The log will show the start time, the number of events recorded, the event number of each recorded event, and the time the seismograph stopped monitoring. This log is stored within the seismograph and you can use the SuperGraphics program to download it.</p> <p>This feature allows you to prove that the unit was monitoring during a stated period of time.</p>
Pretrigger Size	<p>Use this option to indicate the time that the graph will record before a trigger level is surpassed. This feature allows you to see what was happening just before the trigger level was exceeded.</p> <ul style="list-style-type: none"> • QUARTER SECOND • HALF SECOND • FULL SECOND

Feature	Description
Sensor Gain/Type	Use this option to view the type sensor provided with the unit and the maximum vibration level for that sensor. The sensors available are X1 (20 IPS/508 mm max), X2 (10 IPS/254 mm max), X4 (5 IPS/127 mm max), and X8 (2.5 IPS/63 mm max).
Serial Number	Use this option to view the serial number of the instrument. This serial number can only be set at the NOMIS facility.
Timer Mode	<p>Use this option to choose times the unit will be operating and monitoring for vibrations. When the timer has the instrument turned off, the unit will operate on very little power and will not trigger.</p> <ol style="list-style-type: none"> 1. Make sure the current date and time is correct BEFORE using timer mode. If you change the date and time after timer mode is set, timer mode will automatically be cancelled. 2. Choose ENABLE to use timer mode. 3. Choose one of the following options: <ul style="list-style-type: none"> • 1. ONE TIME – One time on and off of the unit. After this one time, it will not occur again.

Feature	Description
	<ul style="list-style-type: none"> • 2. HOURLY – Once every hour. • 3. DAILY (EVERY DAY) – The same time every day, seven days per week, 365 days per year. • 4. DAILY (WEEKDAYS) – The same time, Monday – Friday, of each week, 52 weeks per year. The instrument will not be operational on Saturday and Sunday of each week. • 5. WEEKLY – This operation will be active for the same day each week that is entered for the start date. • 6. MONTHLY – This operation will be active for the same date (not day) of the month that is entered for the start date. <p>IMPORTANT: For options 2-6 above, the stop date year must be greater than the current year. If the stop date year is the same as the current year, the unit will operate as indicated in option 1 and only turn ON and OFF one time.</p> <p>4. After selecting timer mode settings, the LCD will show this message: TIMER MODE NOW ACTIVE. PLEASE POWER OFF UNIT. Press ENTER to confirm.</p>

Feature	Description
	<ol style="list-style-type: none"> 5. Press ESC to go back to the MAIN MENU and select the recording mode you want to use. 6. After selecting the recording mode (self-trigger, bar graph, combo, saved settings), use the EDIT option to view the operating parameters. After you have reviewed these, the LCD will display MONITOR or EDIT. 7. Turn the unit OFF. Timer mode will then be active and turn ON and OFF at the set times. <p>If the unit is turned ON, the LCD will display a message that the unit is in timer mode. Press ENTER and another message will ask if timer mode should be cancelled. Press YES if you want to cancel timer mode and operate the unit normally. Press NO to wait for the programmed start time and the unit will automatically turn OFF.</p> <p>If you want to check the timer mode settings while the unit is turned ON, go to the HELP menu and select TIMER MODE. The settings will display and you can cancel or keep these settings.</p> <p>NOTE: 1) The start time must always be earlier than the stop time. 2) You cannot use Timer Mode when the current time is between the start and stop</p>

Feature	Description
	time. In this case, select the next day for the beginning of Timer Mode
Units of Air	Use this option to choose between DECIBEL and MILLIBAR units. All data stored in the unit will be changed to the selection of choice.
Units of Measure	Use this option to choose between INCHES and MILLIMETERS. The data will display in the unit of measure you choose.
Waveform Auto Cal	Use this option to generate a calibration record at the beginning of each monitoring session.

Technical Specifications

Seismic:

- Monitoring with Standard Triaxial Geophone
- Range: 0 - 10in/s (0-254mm/s) - Standard
- Maximum Resolution: 0.00003 in/s (0.00078mm/s) @ 16-bit accuracy
- Accuracy: +/- 3%
- Transducer Density: 108 lbs/ft³
- Frequency Response: 2 - 400 Hz (1Hz optional)

Sound:

- Weighting Scales: Linear (flat)
- Linear Range: 92-148dB
- Linear Resolution: 0.00015625mb @ 16-bit accuracy
- Linear Accuracy: +/- 1dB or +/- 10% whichever is greater
- Linear Frequency Response: 2 - 400Hz

Waveform Recorded Data:

- Record Modes: Waveform, Combo & Manual
- Seismic Trigger Range: 0.02 - 10.24 in/s (0.508 - 260.096mm/s)
X2 sensor low sensitivity
- Sound Trigger Range (Linear): 92 - 148dB, no trigger (other levels optional)
- Sample Rate: 1024 - 16384 Standard, higher rates optional
- Record Time: Up to 895 seconds
- Cycle Time: No wait time in between events
- Storage Capacity: 65k one-second events standard @ 1024 samples/s

Bar Graph Data:

- Record Modes: Bar Graph (Histogram)
- LCD readings: Real time update 1-60 seconds
- Bar Recording Interval: 1,10,20,30,40,50,60 seconds
- Summary Interval: 5,15,30 minutes, 1,2,4,8,12,24 hours
- Summary Data: Peak R,T,V + Sound & Frequencies for each

Physical Specifications

- Dimensions: 6 x 4.25 x 3 in/ (152 x 108 x 76 mm)
- Weight: 4.1 lbs. (1.9 kgs)
- Battery: Up to 7 days duration per recharge (monitor mode)
- Display - LCD: 8 lines x 21 characters w/backlight
- PC Interface: RS-232 & additional 15 pin auxiliary connector / USB
- Auxiliary Inputs & Outputs: External trigger & remote alarm
- Operating Temperature: 0 to 120° F (-18 to 50° C)
- Remote Communications: Full function RS-232 port, compatible with telephone, GSM, satellite, RF
- Warranty: 2 years parts & labor



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