

SSU 3000-EZ PLUS

The SSU 3000-EZ PLUS is a convenient, easy to use and complete vibration and sound monitoring system designed with the user in mind. Key features include an enhanced tactile keypad, heavy-duty twist-lock metal cable connectors and hand craftsmanship resulting in the most weather-resistant instrument on the market. The four-line by 20-character LCD and menu-driven programming makes on-site setup easy and permits the user to view numerical waveform data and monitoring results in the field. The timesaving template utility can store repetitive setup information for quickly deployed instruments with pre-defined configurations. The internal lead-acid battery is long lasting and easily charged using the included AC adapter. An integrated timer turns the unit on and off at pre-selected times to conserve battery power. The 2-hertz, high-pass microphone and all other accessories fit easily into the tough, structural-resin carrying case.

The 3000-EZ PLUS has three recording modes: 1) triggered – either seismic or sound, 2) continuous (histogram) and 3) sustained trigger. The internal memory can store up to 220, 1-second events. Sustained trigger mode delays processing and permits collection of consecutive 15-second intervals of waveform data up to a cumulative total of approximately 4.2 minutes. Data can be collected in either imperial (US customary) or metric units. The included basic compliance software package can be used for data analysis and preparation of standard or customized reports.

GeoSonics® is a leader in seismograph innovation, design, manufacturing and vibration consulting. Because we use the equipment we design, a user-friendly interface, ruggedness and reliability are not just goals – they are standards.

GeoSonics® ...always a step ahead!

Features & Specifications



The serial port for external communications and programming is easily accessible next to the external power supply port. Both are weather resistant.



Heavy-duty twist-lock metal cable connections with protective caps are standard design features on all GeoSonics® seismographs.



A serial cable and external power supply are standard accessories with all GeoSonics® seismographs.

STANDARD FEATURES:

- External geophone meets ISEE density recommendations.
- Four-line by 20-character LCD and 16-key alphanumeric keypad for on-site setup and data display.
- Toughest structural-resin case on the market.
- Heavy-duty twist-lock metal cable connectors.
- Most water resistant instrument on the market.
- Internal, rechargeable lead acid batteries.
- Flexible interface and extensive options available for custom configurations.

STANDARD FEATURES (Continued):

- Two (2) independent threshold alarm output ports.
- PC serial port interface for downloading event data.
- Up to 220, 1-second waveform data recordings (up to 50, 5-second waveform data recordings).
- GPS acquisition feature (NEMA 108 compatible).
- Six (6) template locations for recurring set up data.
- Imperial and metric operation.
- Basic compliance reporting software package included.
- Designed & manufactured in the USA.

GENERAL:

- Weight 14.7 lbs (6.7 kg)
- Dimensions 12.3 in x 13.5 in x 5.0 in (31.1 cm x 34.3 cm x 12.7 cm)
- Operating Temperature: 0 to 130° F (-18 to 54° C).
- One (1) year warranty on parts and labor.
- Extended warranties & service contracts also available.

OPTIONAL ACCESSORIES:

- Hydrophones (instrument modifications required).
- Accelerometers to 50 g's or higher (instrument modifications required).
- Amplifiers (10x-100x).
- Optically isolated dual alarm control for dialers, pagers and remote alarm notifications.
- Advanced seismic analysis software package.

RECORDING MODES:

Seismic Trigger:

Resolution: 0.0025 in/sec. (0.06 mm/sec.)
 Range: Up to 5,120 in/sec. (130 mm/sec.) (other ranges available).
 Frequency Response Range: 2 to 250 Hz (3 dB) / 2 to 1,000 Hz (Nyquist).
 Sampling Rate: Up to 2,000 / second / channel.

Sound Trigger:

Recording Intervals: 1 to 15 seconds.
 Accuracy: 5% within one year (multi-frequency calibrated).
 Calibration: Internal dynamic.
 Range (Linear): 78 to 142 dB (other ranges available).
 Frequency Range (3 dB): 2 to 250 Hz (3 dB) / 2 to 1,000 Hz (Nyquist).
 Accuracy: ±10% or 1dB within one year (multi-frequency calibrated).
 Calibration: Internal electronic.

Continuous (Histogram):

Vibration Data: Peak particle velocity and frequency for L, T & V.
 Recording Intervals: Selectable: 1 to 60 seconds.

Sustained Trigger:

Sound Data (Linear): 78 to 142 dB (other ranges available).
 Multiple Event Recordings: Consecutive waveform recordings up to 4.2 minutes.



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