

SSU 3000LCP

The SSU 3000LCP is a convenient, easy to use and complete vibration and sound monitoring system designed with the user in mind. It has a tough, weather resistant case, enhanced tactile keypad and heavy-duty twist-lock metal cable connectors. External ports allow the case to remain closed during monitoring operations. A large thermal printer provides instant in-hand reports in the field. The low-density geophone complies with ISEE recommendations. A 2-hertz high-pass microphone and all accessories fit easily into the case. The four-line LCD makes on-site programming easy and permits the user to view results on-screen. The internal lead-acid battery is long lasting and easily charged using the included AC adapter. The integrated timer will turn the unit on and off at pre-selected times to conserve battery power. A serial port allows the seismograph to be connected to a PC for easy data transfer. Timesaving setup templates can be used to store repetitive configurations.

The SSU 3000LCP 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 on-board thermal printer is protected from weather during field programming by a clear, sealed cover. Ample case storage compartment for all included accessories.



Instrument connection ports come standard with caps to protect connecting pins when not in use.



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.

GENERAL:

- Weight: 22 lbs (10 kg)
- Dimensions: 16 x 13 x 7 in (41 x 33 x 17 cm)
- Operating Temperature: 0 to 130° F (-18 to 54° C).
- One (1) year warranty on parts and labor.
- Extended warranties and service contracts also available.

OPTIONAL ACCESSORIES:

- Hydrophones (instrument modifications required).
- Accelerometers to 50 g's or higher (instrument modifications required).
- Amplifiers (10x-100x).

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.

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.

Vibration Data: Peak particle velocity and frequency for L, T & V.

Recording Intervals: Selectable: 1 to 60 seconds.

Sound Data (Linear): 78 to 142 dB (other ranges available).

Multiple Event Recordings: Consecutive waveform recordings up to 4.2 minutes.

Sound Trigger:

Continuous (Histogram):

Sustained Trigger:

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.

PRINTER:

- Thermal, 42-column line head printer with motor-driven take-up spool. Up to 140 events per roll of paper.
- Graph scaling from 0.5 to 5 inches per second.
- Graphical histogram with summary, or data only of highest PPV and frequency, or maximum overpressure.

OPTIONAL ACCESSORIES (Continued):

- Optically isolated dual alarm control for dialers, pagers and remote alarm notifications.
- Advanced seismic analysis software package.



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