

SAVER™ 9X30

The Lansmont SAVER™ 9X30 is our next generation, ultra small, battery powered environmental recorder. SAVER™ or Shock and Vibration Environmental Recorder allows the user to measure damaging variables which occur during in-use conditions, distribution or any other application which would require hands free measurements.

The SAVER™ 9X30 will continuously measure up to 30 days worth of Shock (Impact/Drop), Vibration, Temperature and Humidity conditions. Our new SAVER™ 9X30 has a total of 25 recording channels; 9 of which are designated for dynamic event recording with the remaining 16 channels designated for static recording. The instrument will only store events which match the user-programmed criteria from any or all of the 25 recording channels. Events of interest can be described as signal triggered (threshold exceeding) and / or time triggered intervals.



SAVER™ 9X30 can be utilized to:

- Ruggedize product design based on real world inputs.
- Improve packaging performance.
- Perform due diligence for insurance premium reduction and risk management.
- Audit transit environments to assess carrier handling practices.
- Define "Normal" vs "Abnormal" shipping conditions.
- Capture both time history and frequency data to replicate in a laboratory.
- Verify existing testing standards based on real world measurements – or Create your own testing standard.

Features:

SaverXware companion software allows the user to program the instrument for use, transfer information to/from the host computer, and analyze/export all data recorded. This powerful software package is built on the latest Windows™ .Net development platform enabling many new features such as:



- Event Classification – Automatically categorizes events as Shock, Drop, Vibration or General. This feature greatly reduces analysis time.
- SaverXware will instantly process all recorded events for Shock, Drop and Vibration providing a full analysis for each event.
- Simultaneous Trip Analysis - Analyze multiple event files concurrently.
- Enhanced Summary Selector – Build event selection criteria to quickly find the information you're looking for.
- Customized Printing and Reporting – SaverXware provides everything from automated Summary Overview Reports to detailed event by event printing.
- GPS Mapping Software Capability* – Import GPS coordinates or record GPS information in parallel use with SAVER™ products. Either way, SaverXware will import and display GPS data worldwide. * Requires GPS option.

17 Mandeville Court, Monterey, CA 93940

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PHYSICAL

Envelope Size:	4.99 x 4.90 x 1.69 inches (127 x 124 x 43 mm).
Volume:	41.2 cubic inches (675 cubic cm.).
Case Material:	6061-T6 aluminum.
Weight:	2.04 lbs. (1 kilogram).
Mounting:	4 holes for #6 screws, mounting bars recommended.

DATA RECORDING

A/D Resolution:	16 bits.
Instrument Noise Floor:	0.02 grms typical at 500Hz bandwidth.
Dynamic Range:	80dB typical.
Instrument Noise Floor:	0.02grms typical at 500Hz bandwidth.
Sample Rates:	50 to 10,000 samples per second per channel.
Triggering:	Signal threshold and/or timer based recording.

MEMORY

Memory Size:	128M bytes.
Memory Type:	FLASH.
Data Retention:	Retains data even when batteries are exhausted.

COMMUNICATIONS

Interface:	USB 1.1 compatible.
Data Rate:	400K bytes per second typical.

ACCELEROMETER

Accelerometer Type:	Tri-axial piezoelectric.
Acceleration Ranges:	5, 10, 20, 50, 100, and 200g full scale.
Channel Filter Type:	4-pole, low-pass.
Filter Frequencies:	10, 20, 25, 50, 100, 200, 250, and 500Hz.
3dB Frequency Response:	0.4Hz to filter maximum.
Measurement Accuracy:	±5% with nominal variations in temperature and frequency.

TEMPERATURE

Measurement Range:	-4° to +140°F (-20° to +60°C)
Measurement Accuracy:	±0.5°C from +5° to +40°C. +/- 1.5°C from -40° to 60°C
Communication Temperature Range	0°C -60°C

HUMIDITY

Measurement Range:	5% to 95% RH, non-condensing.
Measurement Accuracy:	±2% from 10% to 90% RH at 25oC. ±3% from 5% to 95% RH at 25oC.

CONTROLS AND INDICATORS

Controls:	ON/OFF Button
LED Indicators:	Green activity monitor. Red alarm condition. Yellow low battery. Green USB cable attached.
Power:	2 lithium or alkaline 9 Volt batteries.
Operating Temperature:	-40° to +140°F (-40° to +60°C) using lithium batteries. -4° to +130°F (-20° to +54°C) using alkaline batteries.
Continuous Record Time:	Up to 30 days using lithium batteries. Up to 5 days using alkaline batteries.
Case:	Weather-resistant.