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Field Instruments Monitoring Devices

Solutions

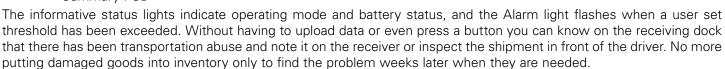
SAVER™ 3L30 – affordable data acquisition instrument

When low cost, ease of operation, small size and accurate data are important issues the SAVERTM 3L30 is the instrument for you.

The SAVER™ 3L30 continuously monitors all shocks but only records those events that are significant. Each event is Date and Time stamped to help determine where the product was and who was handling it when the event occurred. The powerful analysis software will display waveforms for all stored events.

Analysis Software includes:

- Trip Information
- Trip View (Events vs. Total Record Time)
- Event Table (Spreadsheet of all Events)
- Event Viewer (Acceleration vs. Time waveforms)
- Acceleration vs. Velocity Change (Damage Boundary)
- Shock Response Spectrum (SRS)
- Event PSD
- Summary PSD



With its small size and light weight the SAVER™ 3L30 will easily fit most shipping containers and the lithium rechargeable batteries will run the instrument for 30 days on a single charge.

Features:

- Small Size: Measures 3" x 2.9" x 1.6" and weighs only 1 pound, easily fitting into almost any shipping container.
- Power: Uses rechargeable batteries that run for 30 days on a single charge.
- Informative status indicators: Four status lights tell you when the unit is on, when an alarm condition has occurred, and low battery / charging conditions.
- Simple Operation: So easy to use you can set up the SAVER™ 3L30 and start recording data in less then one minute. A report writer produces a detailed report just seconds after retrieving data.
- Full Waveform Recorder: Display and analyze the largest 100 dynamic events. Software provides Time Domain, both Event and Summary Power Spectral Density (PSD) and Shock Response Spectrum (SRS).
- Sensing: Internal Tri-axial Accelerometer with a measurement range of 100 G's.
- Memory: Continuously measure all shock events and only stores the largest 100 events.
- Affordable: Reusable, rugged and low cost.





TECHNICAL SPECIFICATIONS

PHYSICAL		
3 x 2.9 x 1.6 inches (76 x 74 x 41 mm)		
Less than 14 cubic inches (231 cubic cm.)		
Approximately 1 Pound (.45 kg)		
6061 – T6 Aluminum, Clear Alodine Finish		
Green "Monitor" LED to indicate SAVER™3L30 is Functioning;		
Red "Alarm" LED to indicate SAVER™3L30 Recorded a Threshold Exceeding Event;		
Yellow "Battery" LED to indicate Low Battery Voltage Condition;		
Green "Charge" LED to indicate SAVER™3L30's Batteries are Charging		
"On / Off" Push Button to Control Power		
2.5 mm Male / Female for RS-232 Communications		
Rechargeable Lithium Batteries that Run for 30 Days Between Charges		

DATA HANDLING		
Resolution	0.1G	
Number of Channels	3 Channels (Tri-axial Accelerometer)	
Sampling Rate	10 x Low Pass Filter (100 s/s, 200 s/s, 500 s/s, 1,000 s/s and 2,000 s/s)	
Clock (Real Time)	Programmable Date and Time	

SENSING		
Acceleration Range	± 100 G's	
Low Pass Filters	3 Pole Butterworth with Software Selectable Cutoff Frequencies of 10 Hz, 20 Hz, 50 Hz, 100 Hz and 200 Hz	

DATA LOGGING AND MEMORY		
Data Acquisition Modes	Threshold Triggered	
Recording Modes	Maximum Overwrite	
Communication Speed with PC	RS – 232 Serial Interface at 115.2K Baud	
Memory	Stores Largest 100 Events	

Analysis Software (Graphic and Tabular)		
Trip History	Displays Recorded Events vs. Total Record Time	
Trip Information	User Defined trip Information	
Trip Table	Tabular Listing of up to 100 events with Date and Time. User can sort data based on Date / Time, Tri-axial Peak G, Peak G and Delta V	
Event Viewer	Acceleration vs Time Waveform Displays 3 Channel Peak G, Duration and DeltaV	
Acceleration vs Delta V	3 Channel Damage Boundary Scatter Plot	
SRS	3 Channel Shock Response Spectrum	
Event PSD	3 Channel Power Spectral Density based on Single Event	
Summary PSD	3 Channel Power Spectral Density based on all Summary Events	
Host Computer Requirements	Windows 95, 98, 2000, or NT, XP with RS-232 Port	



