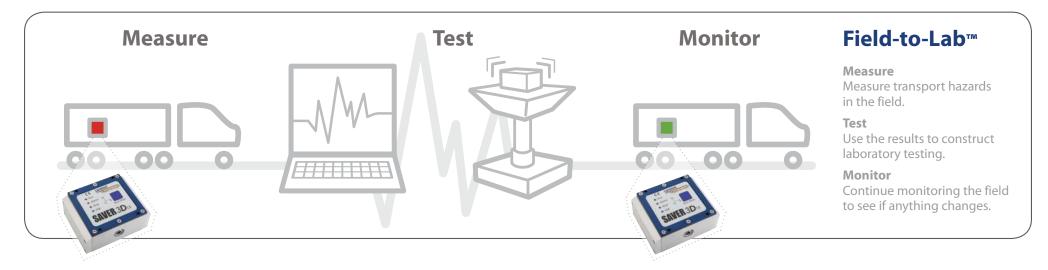








SAVER[™] 3D15 is a self-powered field data recorder with an internal tri-axial MEMS accelerometer, possessing DCresponse measurement capability. The 3D15 also incorporates temperature and humidity sensors, and USB connectivity. Powered with 9V lithium batteries, the instrument will operate continuously for up to 15 days. 16-bit resolution allows you to take precise measurements of your dynamic environment.



SAVER™ 3D15

Lansmont Field-to-Lab®

FEATURES



Field-to-Lab®

Use SaverXware™ software to analyze data captured with SAVER™ instruments, and seamlessly create random vibration test profiles that can be easily imported into Lansmont TouchTest Vibration Controllers for immediate use. Only Lansmont offers this crossplatform integration.



MEMS DC Response accelerometers in the field for up to 15 days.

15 Day battery Life:

SAVER™ 3D15 is powered with user replaceable 9V lithium (or alkaline) batteries and provides continuous operation of the



In addition to dynamic measurements, your SAVER[™] 3D15 will also capture temperature and relative humidity conditions. Internal sensors mounted to the

T/RH sensor:

back side of the SAVER[™] 3D15 measure and record environmental conditions per the user-defined setup.

OPTIONS



External Battery Pack:

For some recording applications, 15 days may not be enough recording time. Not a problem. Lansmont offers an External Battery Pack that extends the continuous operation time from 15 to 40 days.



hardware. If you are attaching to a ferrous surface, magnetic mounting kits are available.

Mounting Kits:

Mounting kits can make it easier to fix SAVER[™] 3D15s to vehicles or structures. Kits include mounting plates and attachment



Data Analysis Center:

Trust Lansmont data specialists to interpret your data and provide you with even greater confidence. Lansmont data specialists are experts at acquiring,

analyzing and summarizing data; if you need help defining parameters or protocols, we can help.

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Lansmont Field-to-Lab[®]

SaverXware[™]

Each SAVER[™] purchase includes Lansmont's SaverXware[™], the easy-to-use software that communicates with the SAVER[™] 3D15 for setup prior to recording — as well as data analysis, once you've collected some data. Data analysis features include drop heights, impacts, vehicle motion, vibration, and temperature and humidity cycles.



Measurement Setup

Users are provided with simple, standard setup gateways for common measurement applications. Advanced setup options provide complete control over all setup parameters, providing unparalleled capability for instrument users.



Data Analysis

Powerful individual and multi-event summary analyses providing time-history, frequency domain, and vector visualizer playback and review.



Summary Reporting and Export

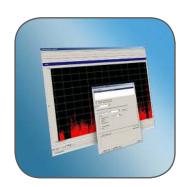
Generate user-defined project summary reports and print to document measurement results. Additionally, export the project data itself to ASCII files for analysis and reporting using universally available software applications.



Event Table and History

Multi-data files can be viewed in single, common project databases. The data file's measured events are chronologically presented in event tables, which are positioned underneath measurement Ouick Histories. The Quick Histories display the captured data from the project

beginning to end in one view. Corresponding event thumbnails are updated as different events are highlighted in the table.



Extremely useful event selection options based upon acceleration and Grms levels, time occurrence, type of event and even impact type and orientation. A quick history zoom-to-summary option with user-defined range cursors is provided as an alternative summary selector.



GPS Integration

Externally captured GPS data can be imported and automatically synchronized with SAVER[™] 3D15 data to add further value and definition to vour measurement results.

Summary Event Selection



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MEASUREMENT APPLICATIONS

There are specific applications where DC recording capabilities are required to measure low frequency energy. For instance, amusement park rides, aerospace flight applications, rail-car coupling impacts, and vehicle crash testing all contain low frequency responses with long duration, constant acceleration time histories. The 3D15, with it's MEMS DC Response accelerometers, is the right instrument to address those applications.



Rail Impacts



Asset Transport



Off Road Measurements



Vehicle Crash Testing



Structural Measurements



Packages



Aerospace Dynamics



Amusement Rides



Seismic

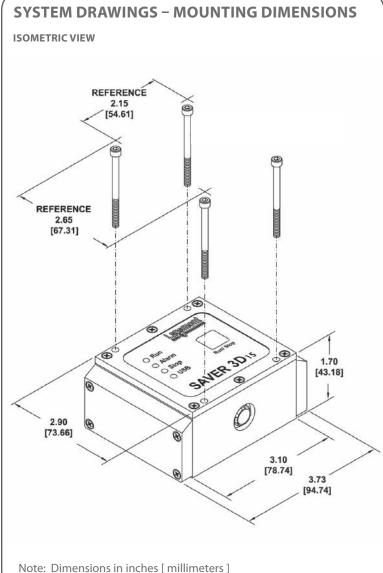
Effective integration of measurement and monitoring programs provide customers the ability to:

- Characterize the dynamic and climatic hazards within a given environment
- Establish product design criteria
- Develop laboratory testing and simulation criteria
- Audit distribution channels and carriers
- Establish liability in transport damage situations
- Determine normal vs. abnormal handling and transport of your goods
- Create climatic histograms of environmental conditions (Temp/RH)



Lansmont Field-to-Lab®

SPECIFICATION	IS		
PHYSICAL		ENVIRONMENTAL	
Size: Volume: Chassis Material:	3.74 x 2.90 x 1.7 in. (95 x 74 x 43 mm) 18.4 in. ³ (302 cm ³) 6061-T6 anodized aluminum	Operating Temperature:	-40° to +60°C (-40° to +140°F) using lithium batteries -20° to +54°C (-4° to +130°F)
Weight:	16.7 oz. (473 grams)	Communication	using alkaline batteries
Environmental:	Weather Resistant	Temperature:	0° to +60°C (32° to +140°F)
Mounting:	4 thru holes for #6 screws	Temperature Measurement / Accuracy:	-40° to +60°C (-40° to +140°F)
DATA ACQUISITION		medsurement / Accuracy.	±1.0°C from +5° to +40°C; ±1.5°C from -40° to +60°C
Sampling Rates:	50, 100, 200, 250, 500, 1000, 2500, and 5000 samples per second	Humidity	
A/D Conversion:	16-bit	Measurement / Accuracy:	5% to 95% RH, non-condensing ± 4% from 5% to 95% RH at 25°C
Accelerometer Type:	Tri-axial MEMS		
Acceleration Ranges:	5, 10, 20, 50 g (full-scale)	POWER	
Anti-Alias Filter:	4-pole, low-pass Butterworth filter 10, 20, 25, 50, 100, 200, 250 and 500 Hz. (cut-off frequency)	Internal: External:	2 lithium or alkaline 9V batteries 4-D Cell battery pack
Software Filters:	1 or 2-pole, low-pass RC post-process filters 0 to 10 kHz (cut-off frequency)	Continuous Run Times:	15 days using lithium batteries 7 days using alkaline batteries 40 days using 4-D cell battery pack
3-dB Frequency Response:	DC to filter setting		(option)
Instrument Noise Floor:	0.03 Grms typical at 500 Hz bandwidth		
Dynamic Range:	80 dB typical	SOFTWARE / COMMUNICATIONS	
Measurement Accuracy:	±5% with nominal variations in temperature and frequency	User Interface:	SaverXware [™] software
DATA RECORDING		Compatibility: COM Interface:	Microsoft Windows® XP (SP3), Vista, 7 USB 1.1 or 2.0 compatible
Signal Trigger:	User programmable acceleration (g) threshold	Data Rate:	400 kB/s (typical)
Timer Trigger:	User programmable "wake-up" interval	CONTROLS	
Pre-Trigger:	User programmable signal event pre-trigger	AND INDICATORS	Dun / Stan huttan
Data Retention Modes:	Max. Overwrite Fill, / Stop Wrap, / Overwrite	LED Indicators:	Run / Stop button Green: Run
Temperature / Humidity:	Temperature and RH readings recorded for each event	LED Indicators.	Red: Alarm Yellow: Stop Green: USB cable connected
MEMORY			Green. OSD Cable connected
Memory Size:	128 MB		
Memory Type:	Non-volatile FLASH		
Memory Retention:	Retains data even when batteries are exhausted or removed		



3.15