

## Robust, continuous remote monitoring.

The SAVER™ AM Asset Monitor provides an autonomous, rechargeable platform for monitoring the movement of critical assets throughout the supply chain. It utilizes an internal triaxial accelerometer, as well as temperature, relative humidity, atmospheric pressure, orientation and light sensors. With all these features, together in one measurement package, the SAVER™ AM provides unparalleled supply chain monitoring solution.



Vibration



Drop



Shock



Temperature



Relative Humidity



Atmospheric Pressure / Altitude



Orientation



Light Sensing



Battery Life

## Specifications

### Physical

Size: 2.8 x 2.6 x 1.3 in. (71 x 66 x 33 mm)  
 Chassis Material: 6061-T6 anodized aluminum  
 Environmental: IP67  
 Power: rechargeable lithium-ion battery  
 Mounting: 4 thru holes on mounting flanges for #6 screws  
 Compliance: CE certified

### Data Acquisition

Sampling Rates: 500, 1000, 2500, and 3000 samples per second  
 A/D Conversion: 12-bit  
 Accelerometer Type: triaxial piezoelectric  
 Acceleration Ranges: 100 g and 200 g (full-scale)  
 Anti-Alias Filter: 5-pole, low-pass Bessel filter 50, 100, 250, and 300 Hz (cut-off frequency)  
 Software Filters: 1 or 2-pole, low-pass RC post-process filters 0 to 10 kHz (cut-off frequency) 3-dB  
 Frequency Response: 0.5 Hz to filter setting  
 Instrument Noise Floor: 0.02 Grms typical at 300 Hz bandwidth  
 Dynamic Range: 80 dB typical  
 Measurement Accuracy: ±5% with nominal variations in temperature and frequency

### Data Recording

Signal Trigger: user programmable acceleration (g) threshold  
 Timer Trigger: user programmable “wake-up” interval  
 Pre-Trigger: user programmable signal event pre-trigger  
 Data Retention Modes: max. overwrite, fill / stop, wrap / overwrite  
 Continuous Record Time: up to 30 days  
 Temperature / Humidity/Pressure: temperature, RH, and pressure readings recorded for each event  
 Orientation Sensor: records orientation for each event  
 Light Sensor: records ambient light for each event

### Memory

Memory Size: 400 waveform signal events; 10,000 timer events  
 Memory Type: non-volatile FLASH  
 Data Retention: retains data even when batteries are exhausted or removed

### Environmental

Operating Temperature: -20° to +60°C (-4° to +140°F)  
 Communication Temperature: 0° to +60°C (32° to +140°F)

### Temperature Measurement / Accuracy:

-20° to +60°C (-4° to +140°F)  
 ±1.0°C from +5° to +40°C;  
 ±2.0°C from -4° to +60°C

### Humidity Measurement / Accuracy:

5% to 95% RH, non-condensing  
 ± 3% from 10% to 90% RH at 25°C  
 ± 5% from 5% to 95% RH at 25°C

### Atmospheric Pressure Measurement / Accuracy:

10 to 1100mbar ± 4mbar from 750 to 1100mbar at 25°C

### Light Sensor Measurement:

0 to 2000 lux

### Software / Communications

User Interface: SaverXware™ software  
 Compatibility: Microsoft Windows® 7, 8, 8.1, 10 (32 or 64-bit)  
 COM Interface: USB 2.0 compatible  
 Data Rate: 400 kB/s (typical)

### Controls and Indicators

Controls: run / stop button  
 LED Indicators: run / stop: green (run) amber (stop)  
 Battery: green (>20% capacity) amber (<20% capacity)  
 Shock: red  
 Temp / RH: red  
 Orientation: red

NOTE: Continued product improvement necessitates that Lansmont reserves the right to modify these specifications at any time without notice.