



The ShockLog® Cellular Impact Recording and Tracking System combines advanced tri-axial piezoelectric accelerometer technology with sophisticated electronics and software to offer an advanced shock and vibration data logger with real-time tracking. When a programmed impact level is exceeded, a detailed event curve will be recorded, and the ShockLog Cellular module will send a real-time alert letting you know when and where a potentially damaging impact has occurred. Benefit from knowing where your asset is with location messages sent on a user programmable interval (1 hour to 24 hours).

SHOCKLOG CELLULAR SYSTEM SPECIFICATIONS

ShockLog Impact Recording Device

Samples per Channel per Event

Event Duration

Maximum Number of Events (detailed)

System Specification	
Operating Temperature Range	-40°C to 85°C / -40°F to 185°F
Dimensions	4.8 in x 3.1 in x 2.2 in 123 mm x 78 mm x 55 mm
Weight	1.1 lbs / 515 g without batteries
Batteries	3.6V lithium or 1.5V alkaline AA
Battery Life*	Up to 18 months
Case Material	Aluminum
Case Rating	IP67
Web Hosted Application	Supported on Chrome, IE & Firefox
ShockLog Desktop Software	Functions on Windows XP, Vista, 7, 8, 10
Communications / Interfaces	Cellular USB 2 iButton
A-D Converter Resolution	12 bits
Flash Memory for Data	4096 kbytes
Data Collection	
Event Processor Wake-up Delay	0.25 ms
Timeslot Interval	600 to 3600 seconds

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512 to 4096 (user defined)

108 to 870 (user defined)

1 to 128 seconds (user defined)

^{*}Lithium cells required for long battery life or low temperature operations



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Low Frequency Cutoff (-3dB 10g – 100g)	0.1 - 0.5 Hz
High Frequency Cutoff (-3dB)	250 – 300 Hz
Hardware Filters (Programmable)	10 Hz, 40 Hz, 50 Hz, 90 Hz, 120 Hz and 250 Hz
Resolution (% of full scale) 1% for Peaks	0.1%
Scale Factor Accuracy at 5G (event record)	±2%
Additional Error Other Ranges	±2%
Additional Error Peak Capture	±5%
Change of Scale Factor over Temperature	±4%
Acceleration Ranges	±1% to ±200 G
Wake-up Threshold (% of range)**	5 to 95%
Warning and Alarm Thresholds (% of range)**	7 to 95%

Humidity/Temperature Specifications*

Temperature Measuring Range	-40 to 85° C / -40 to 185° F
Temperature Accuracy	±2° C / ±4° F
Temperature Resolution	0.1° C
Humidity Measuring Range	0 - 100% RH
Humidity Accuracy	±3% RH
Humidity Resolution	0.1% RH
Dew Point Measuring Range	-40°C to 85° C / -40° F to 185° F 0 - 100% RH
Dew Point Relative Accuracy (-20 to 70°C, 25 to 75% RH)	±2° C / ±4° F
Dew Point Resolution	0.1° C

Tilt & Roll Specifications

Tilt Range Monitored	±180°
Resolution	0.1°
Transverse Sensitivity	5%

^{**}Recommend 2% minimum difference between wake up and warning and between warning and alarm

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ShockLog Cellular Module

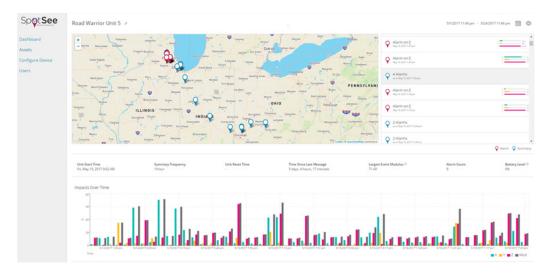
ShockLog Cellular Module	•	
Global Cellular Radio		Sh@ck Log ®
Operating Temperature Range*	-40°C to 85°C / -40°F to 185°F	On Santino
Dimensions	7.0 in x 5.25 in x 1.375 in 17.78 cm x 13.335 cm x 3.5 cm	SHOCKWATCH' Conceptes with Shock Log 298 Shock Log 298 SLC001 Shock Watch me at cloud spotsee in
Weight	1.304 lbs / 590 grams with batteries 1.104 lbs / 500 grams without batteries	
Case Rating	IP 67	
Battery Type*	1.5V AA Batteries	
Battery Life*	Up to 190 days (1 message per day) Up to 75 days (1 message per hour)	
Connectivity	Global 3G/2G cellular connectivity Internal SIM No roaming charges	
Message Buffer (when no cellular network available)	30 messages	
Bands	UMTS 800/850/900/AWS/1900/2100 GSM 850/900/1800/1900	
Global Approvals	FCC, CE US, EU, Canada Please inquire for additional country certification sta	HE CE

^{*}Lithium cells required for long battery life or low temperature operations

SPOTSEE CLOUD

The cloud-based software can be accessed anywhere with a secure login. Chrome, IE, and Firefox are supported browsers.

Each user has a secure account access. Data from the ShockLog Cellular is stored in the cloud where journey information such as location of impacts, impacts over time, impact histogram, and temperature are visualized.



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SHOCKLOG® DESKTOP SOFTWARE

The ShockLog® software runs on a desktop or laptop PC using the Windows XP, Vista, Windows 7, Windows 8, or Windows 10 operating systems.

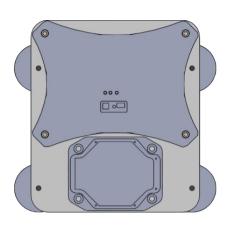
The software allows the operator to configure the ShockLog Cellular and to extract and examine data records from the instrument.

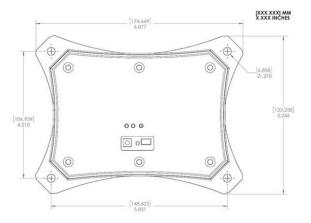
Reports may be viewed on screen and selected data exported to other applications. Six different reports are available: download, summary, events summary, event details, time slot, and log data.

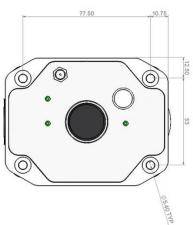
Review your ShockLog Cellular device journey through the simple Windows®-based desktop software program. The software allows for configuration of the ShockLog, data extraction, and analysis. The ShockLog Report View provides users with an overview of the entire journey. ShockLog software provides peak acceleration values for all three axes reported on a time basis as well a detailed impact curve. Additional environmental conditions can be monitored and displayed, if desired. Users are able to zoom in for a closer view, or export data into programs such as Excel and MatLab for more detailed analysis.

MOUNTING

The mounting plate is 8 in x 8.5 in / 20.32 cm x 21.59 cm







ACCESSORIES & RELATED PRODUCTS

New users of the ShockLog product line must purchase an accessory kit which contains the following items (thumb drive containing ShockLog desktop software; ShockLog Quick Start Guide; USB Communication Cable; iButton Set: start, stop, download, setup, and clock iButtons; USB Connection BUS and Cable).

The software is required for setting up the ShockLog Cellular and for downloading the full data set.

Additional software licenses, iButtons, and cables may be ordered separately.





