



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

| 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 |
| Samples per Channel per Event | 512 to 4096 (user defined) |
| Maximum Number of Events (detailed) | 108 to 870 (user defined) |

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

Event Duration

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1 to 128 seconds (user defined)



Accelerometers

Low Frequency Cutoff (-3dB 10g – 100g) 0.1 - 0.5 Hz 250 - 300 Hz **High Frequency Cutoff (-3dB) 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% ±2% **Additional Error Other Ranges 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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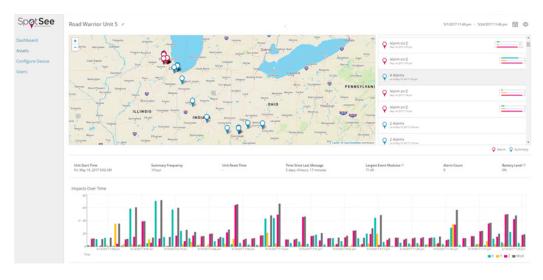
| ShockLog Cellular Module | | |
|--|--|--|
| Global Cellular Radio | | SNOCKLOS [®] Cellular |
| Operating Temperature Range* | -40°C to 85°C / -40°F to 185°F | or sending |
| Dimensions | 7.0 in x 5.25 in x 1.375 in 17.78 cm x 13.335 cm x 3.5 cm | SHOCKWATCH* Compatitie with ShockLog(298) SLC001 SHOCKWATCH* Witch me at cloud.spotsee.io |
| 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 statu | FECE |

^{*}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.

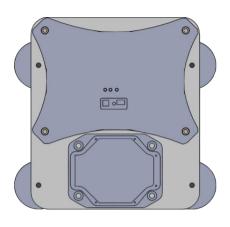
The software allows the operator to configure the ShockLog Cellular and to extract and examine data records from the instrument.

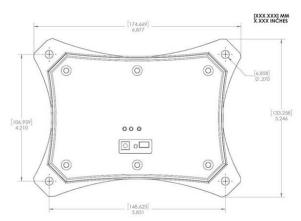
Reports may be viewed on screen and selected data exported to other applications. Six different reports are available: download, summary, events summary, event details, time slot, and log data.

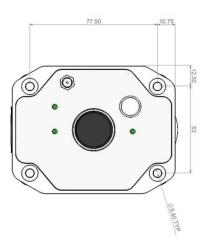
Review your ShockLog Cellular device journey through the simple Windows®-based desktop software program. The software allows for configuration of the ShockLog, data extraction, and analysis. The ShockLog Report View provides users with an overview of the entire journey. ShockLog software provides peak 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.







www.spotsee.io Rev: 01/2019