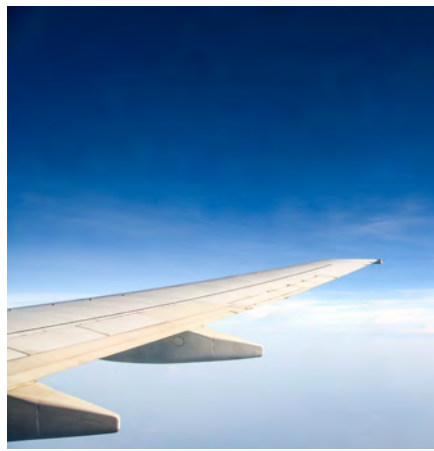




Impact Recorders Comparison Guide



- **Helps identify optimal modes of transportation, routes, packaging, storage options, and conditions through full-journey profiling**
- **Alerts recipients and operators to inspect goods and equipment for potential damage**
- **Isolates when and where unacceptable conditions occur and aids in the identification of accountable parties**
- **Allows for corrective action in cases of potential impact, vibration, tilt, roll, temperature, humidity, and pressure extremes**
- **Pinpoints potential areas for improvement in operational or logistics processes**

ShockWatch impact and environmental recorders continually monitor and record the shock, vibration and environmental conditions experienced by structures, facilities and equipment during transit, storage and operation.

These products record the direction, amplitude, and duration of impacts and internal temperature. Optional sensors record temperature, humidity, atmospheric pressure, tilt and roll. A GPS/ GPRS tracking module is available to pinpoint the location of mishandling or exposure to unfavorable conditions. SpotSee recorders help deter, monitor and minimise damage.

Selection Guide



SpotBot Cellular

Delivers tri-axial impact and temperature condition monitoring through cellular connectivity. Unacceptable impact events and temperature conditions are visualised through the SpotSee Cloud.



ShockLog Cellular

Combines the power of the ShockLog 298 Impact Recorder with cellular communication to deliver impact recording, real-time reporting and asset location. Impact, location and summary data can be accessed in the SpotSee Cloud.



ShockLog Satellite

Combines the flagship ShockLog 298 Impact Recorder with satellite communication and GPS location to deliver outstanding impact recording, real-time reporting and asset location, which can all be viewed in the SpotSee Cloud.



ShockLog 298

Records complete shock curve of up to 870 impact events. Reports peak values (x, y, z), internal temperature and summary data. Options to report external temperature, humidity, tilt, roll, pressure, and GPS coordinates. Software tools provide post-journey data analysis.



ShockLog 248

Records complete shock curve of first and 14th most significant impacts. Reports peak values (x, y, z), internal temperature and summary data. Options to report external temperature and humidity. Software tools provide post-journey data analysis.



g-View

A low-cost option ideal for monitoring impact excursions (x, y, z) and internal temperature.



Spotsee Cloud

The SpotSee Cloud is where trip data is aggregated in real-time. The Cloud features visualisations for multiple units. The graphs are easy to read and include data such as specifics of impact with locations, impacts over time, histogram, and temperature.

- Access to data from wherever you are with a secure web portal
- Impact Alarms with g-level and direction

- Temperature Alarming for two temperature thresholds with location of excursion
- Impacts-over-time visualisation of each asset
- Histogram of asset's impacts
- Time-temperature graph
- Real-time reporting and tracking of incidents

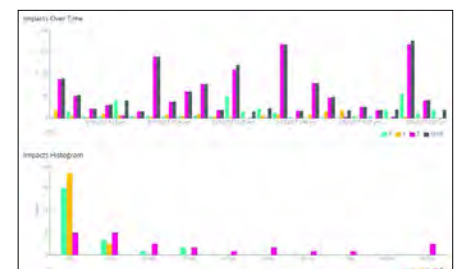
Real-time Reporting

The SpotSee Cloud tracks location and impacts in real-time. Summary

information is sent to the cloud at predetermined intervals so you always know the status of your asset.

Optional Capabilities

See all your asset alarms including location, time, impact g-level, and direction of impact. The data visualises impacts over time so you can easily spot the higher outliers. The histogram is a quick view of the units impacts grouped by g-level.



Feature Comparison Guide

| | SpotBot Cellular | ShockLog Cellular/Satellite | ShockLog 298 |
|------------------------------|--|--|--|
| Selection Criteria | Threshold monitor with cellular communication / location | Complete journey profiling with location and real-time comms | Complete journey profiling Expandability for future requirements vibration monitoring |
| Recorder Type | Threshold | Complete event & max peak | Complete event & time slot (max peak) |
| Standard Measurements | Triaxial over threshold and internal temperature | Triaxial acceleration, max peak, internal temperature | Triaxial acceleration, gRMS vibration, max peak, and internal temperature |
| Number of Events | Unlimited in cloud; top 10 in PDF; top 50 in CSV | Unlimited in cloud; up to 870 on device | Up to 870 |
| Amplitude Scale | 65G max | User programmable: 1G, 3G, 10G, 30G, 100G, or 200G | User programmable: 1g, 3g, 10g, 30g, 100g or 200g |
| Frequency Filter | N/A | User programmable: 10Hz, 40Hz, 50Hz, 90Hz, 120Hz or 250 Hz | User programmable: 10Hz, 40Hz, 50Hz, 90Hz, 120Hz or 250 Hz |
| Battery Life | Up to 75 days (~1x per hour) | Satellite: Up to 1 year Cellular: Up to 75 days (1x/hour) | Up to 18 months / 2xAA size 3.6V (lithium batteries recommended) |
| Expandability | N/A | Satellite: Tilt & roll Cellular: Temperature, humidity, pressure, tilt & roll | Temperature/Humidity/Pressure/ Tilt and Roll GPS Coordinates |
| Alert | LED; notification via SpotSee Cloud | LED; notification and SpotSee Cloud | LED – Running, warning and alarm |
| Data Transfer / Comms | USB, Cellular | USB, Cellular/Satellite | USB & i-Button interface Optional RF interface |
| Ingress Protection | IP67 | Satellite: NEMA 1, 3, 4x, 6P, 12 Cellular: IP67 | IP67 |

Feature Comparison Guide

| | ShockLog 248 | g-View |
|------------------------------|---|--|
| Selection Criteria | Full-journey profiling impact recorder at a low price point | Low-cost threshold monitor; simple software with export to Excel |
| Recorder Type | Event & time slot (max peak) | Event threshold |
| Standard Measurements | Triaxial acceleration and max peak and internal temperature | Triaxial over threshold and internal temperature |
| Number of Events | Up to 15 (1st plus 14 most significant) | Up to 100 per axis |
| Amplitude Scale | Fixed scale: 10g, 30g or 100g | Fixed scale: 10g or 25g |
| Frequency Filter | Fixed value: 40Hz, 90Hz, 250Hz | Fixed value: 25Hz or 40Hz |
| Battery Life | Up to 12 months. 1xAA size 3.6V lithium battery recommended | Up to 6 months / 1xAA alkaline |
| Expandability | Temperature/Humidity | N/A |
| Alert | LED – Running and alarm | LED – Alarm |
| Data Transfer / Comms | USB & i-Button interface | i-Button interface |
| Ingress Protection | IP67 | IP65 |

