

# OPSWATCH / OPSWATCH EX

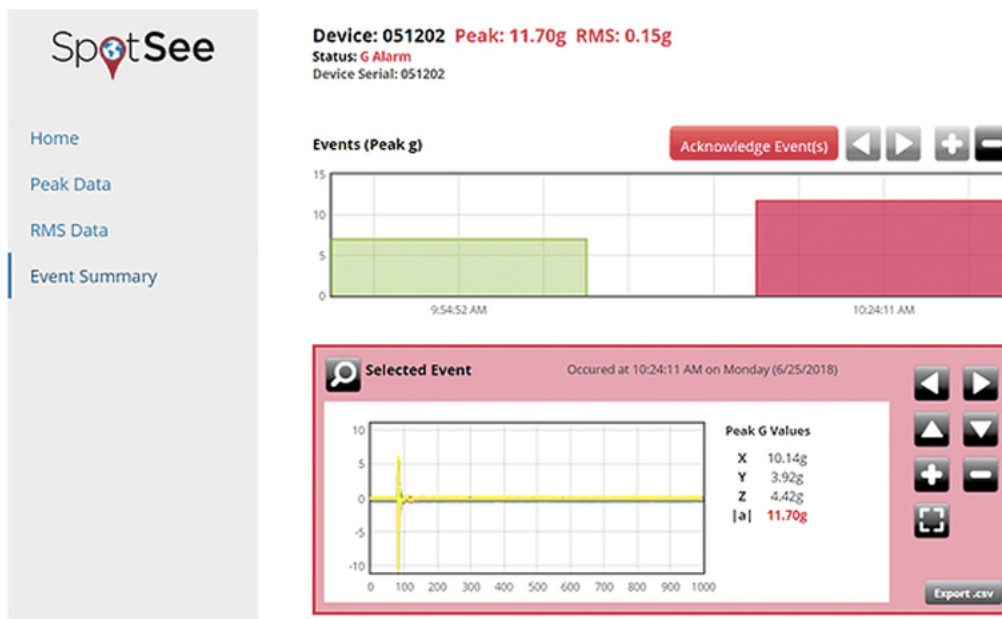


## Product Description

The OpsWatch monitoring system delivers real-time vibration and shock information which allows you to spot anomalies in trends and detect indications of developing faults before they result in costly failures and unplanned downtime.

### Spot Failures. Reduce Downtime. Predict Maintenance.

During operation, some level of vibration in motors, pumps, conveyor systems or any mechanical system is a natural occurrence. There are normal vibration patterns when equipment is in a start-up mode, in operation or during shut-down processes. However, changes in vibration patterns can be an early warning signal of conditions that should trigger preventive maintenance before equipment failure occurs.



## Industries Served

- Aerospace
- Chemicals
- Construction
- Defense
- Electronics
- Energy and Utilities
- Engineering
- Food and Beverage
- Furniture and Fixtures
- Healthcare
- Heavy Machinery
- Logistics and Transport
- Marine
- Oil
- Scientific Research and Instruments

## Vibration & Impact Monitoring Made Simple

The OpsWatch monitoring system makes it simple to identify changes in vibration and see unexpected impact events. The rich data made available by the continuous monitoring, allows your engineering and maintenance teams to develop customized alarm levels for each piece of monitored equipment and develop triggers for predictive maintenance routines. The results are increased up-time, extended service life, reduced maintenance costs of mission-critical equipment and fewer catastrophic failures.



## Benefits

- Web-hosted software allows you to access your data from any web-enabled device
- Real-time notification of unacceptable vibrations and/or impacts
- Continuous monitoring of equipment enables trend identification
- Historical view of data for spotting equipment performance trends
- Equipment performance data that supports predictive and preventative maintenance plans
- Hardware settings configured through any Wi-Fi enabled device

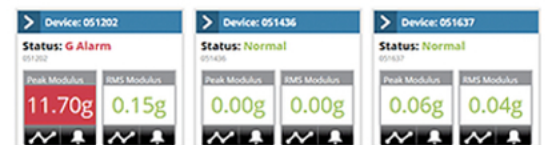
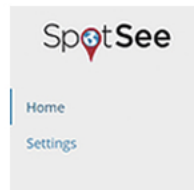


## OpsWatch Cloud

The SpotSee Cloud tracks location and impacts in real-time. The Cloud features visualizations for multiple units. The graphs are easy to read and include data such as specifics of impact with locations, vibrations, histogram, and impacts over time. Summary information is sent to the cloud at predetermined intervals so you always know the status of your asset.

## OpsWatch Cloud Features

- Access to data from wherever you are with a secure web portal
- Impact Alarms with g-level and direction
- Real-time reporting and tracking of incidents
- Easy to read graphs
- Impacts-over-time visualization of each asset
- Histogram of the asset's impacts



## Product Features

- Records peak X, Y, Z RMS vibration values and impacts
- User-defined alarm levels for vibration and impact
- Real-time vibration monitoring to enhance preventative maintenance plans
- Alert users to inspect equipment for potential damage
- Alarms cleared only after being acknowledged in the system
- Full accelerometer streaming available for post-processing data
- An intrinsically safe version of OpsWatch (EX) available



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## Product Applications

- Aggregate Material Equipment
- Construction Sites
- Conveyor Belt Driver Systems
- Cooling Towers
- Energy and Utilities Equipment
- Facilities Management
- Fin Fans
- Hydraulic Fracking
- Industrial Combustion Gas Engines
- Industrial Pumps
- Iron & Steel Manufacturing
- Mining
- Offshore Drilling (top drives)
- Onshore Drilling (top drives)
- Pipe Vibration
- Pulp and Paper
- Rotary Screw Compressors
- Waste Water Treatment Plants

## Product Specifications

OpsWatch Unit Specifications	
Weight:	1180 grams
Size:	100 mm x 110 mm x 40 mm
Operating Temperature Range (Standard Unit):	- 40°C to 85°C
Enclosure Rating:	IP67
Case Material:	Aluminium

OpsWatch ATEX Specifications (For Intrinsically Safe Area)	
Weight:	544 grams
Size:	150 mm x 110 mm x 39 mm
Operating Temperature Range:	- 40°C to 60°C
Drop Test Survival:	1 meter
Flash Memory:	8192 kilobytes

Power Specifications	
Batteries:	2 x 3.6V lithium thionyl chloride; 2.2 Ah

\*INTRINSICALLY SAFE ENVIRONMENT WARNING! Only SAFT LS145000 cells are approved for use with this device. They shall only be replaced when the equipment is in a non-hazardous area or when an explosive atmosphere is shown to be absent.

## Related Products



ShockLog® Cellular



SpotBot™ Cellular



ShockLog® Satellite



ShockLog® 298



## Product Specifications

Communication Interface Specifications	
WiFi Interface:	IEEE 802.11
Operating Frequency:	2.412 – 2.484 GHz
Data Rate:	1.25 Mbps

External Power Specifications (Non-intrinsically Safe Environment)	
External Power Source Voltage:	6 - 30V
External Power Source Average Current (Normal @ 28V):	35mA
(Cleaning Or Downloading @ 28V)	50mA

External Power Specifications (Intrinsically Safe Environment)	
Power:	U <sub>i</sub> = 28V, I <sub>i</sub> = 100mA P <sub>i</sub> = 1.2W, C <sub>i</sub> = 0, L <sub>i</sub> = 0

Electromagnetic Compatibility Standards	
EMC Compliance:	CISPR32: Ed 2.0 (2015-03) CISPR24: Ed 2.0 (2015-04) ICES-003 Issue 6 (2016-01) FCC Rules 47 CFR: Parts 15-B

\*INTRINSICALLY SAFE ENVIRONMENT WARNING! EMC tested with SpotSee approved antenna. Supplied antenna is the ONLY one certified for use in an intrinsically safe environment.

## Related Products



Desiccants



Void Fillers



Impact Indicators



Container Desiccants



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