OpsWatch™ Overview

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. PREDICTED 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, when it is in operation or during shut-down processes. However, changes in a vibration pattern can be an early warning signal of conditions that should trigger preventive maintenance before equipment failure occurs.

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. Armed with this information, your teams develop customized alarm levels that trigger predictive maintenance routines. The results are increased up time, fewer catastrophic failures, extended service life and reduced maintenance costs of mission critical equipment.

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

- Access your information from any web-enable device through a secure log-in.
- Dashboard provides quick overview of equipment status – Normal or Alarm
- Drill down into the data for more detailed analysis

FEATURES:

- Records X, Y, and Z RMS vibration values
- Records peak X, Y, and Z events
- User defined alarm levels for vibration and impact
- Alarms cleared only after being acknowledged in the system
- Full accelerometer streaming available for post-processing data
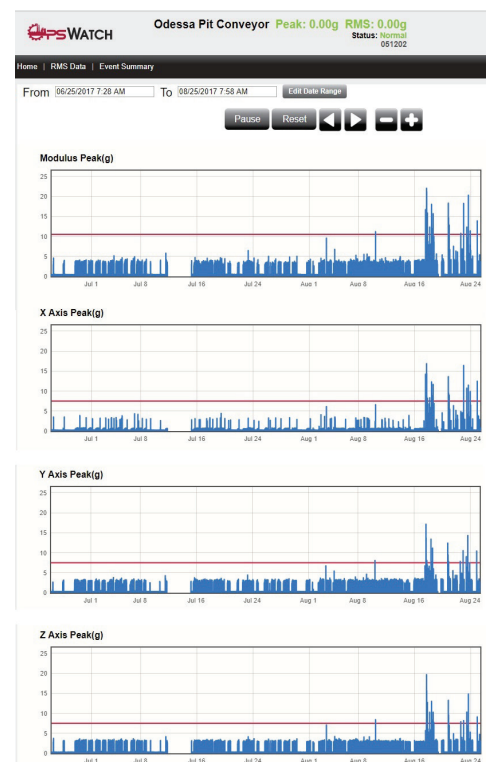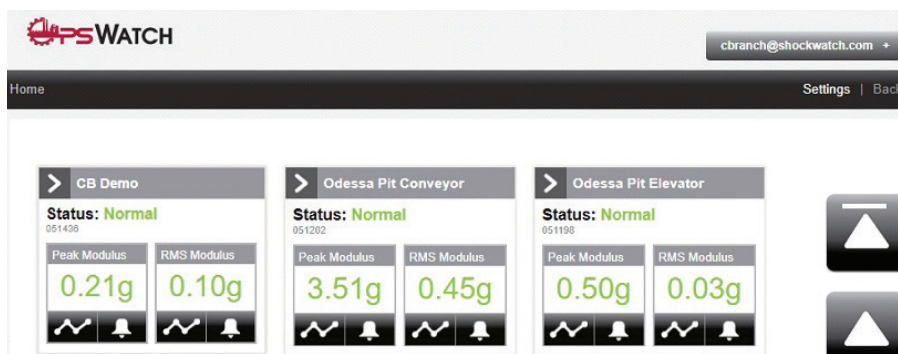
OpsWatch Unit

Operating Temperature Range (Standard Unit)	-40 ^{o}C to 85 ^{o}C
Operating Temperature Range (Hazardous Area)	-40 ^{o}C to 60 ^{o}C
Enclosure Rating	IP67
Case Material	Aluminium
ATEX Dimensions	150 mm x 110 mm x 39 mm
ATEX Weight	544 grams
Standard Dimensions	100 mm x 110 mm x 40 mm
Standard Weight	1180 grams
Drop Test Survival	1 m
Flash Memory	8192 Kbytes

Communication Interface

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

Power

Batteries (Temporary Power)	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.**

External Power (Non intrinsically safe environment)

External Power Source Voltage	6 – 30 V
External Power Source Average Current (normal @28V) (clearing or downloading @ 28V)	35 mA 50 Ma
External Power (Intrinsically Safe Environment)	Ui = 28V, Ii = 100 mA Pi = 1.2W; Ci = 0; Li = 0

EMC

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. This antenna is the ONLY one certified for use in an intrinsically safe environment.**