# OpsWatch Overview

The OpsWatch monitoring system delivers real-time vibration and shock information which allows you to spot 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 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.
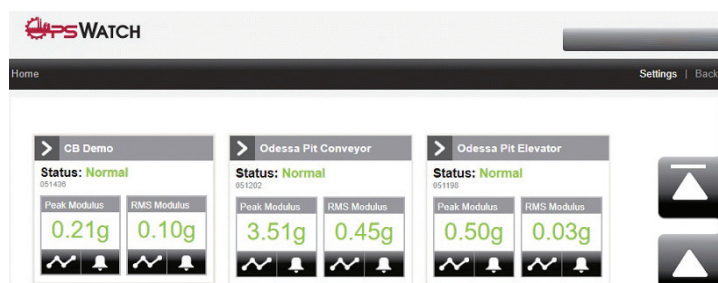
Benefits

- 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


OpsWatch Cloud

- Access your information from any web-enable device through a secure log-in

- View dashboard provides quick overview of equipment status – Normal or Alarm Condition

- Drill down into the data for more detailed analysis

Features:

- Measure and record x, y, z impacts and vibration

- Define alarm levels for acceleration, velocity or rms vibration

- Clear alarms only after being acknowledged in the system

- Stream full accelerometer data for post-processing and analysis
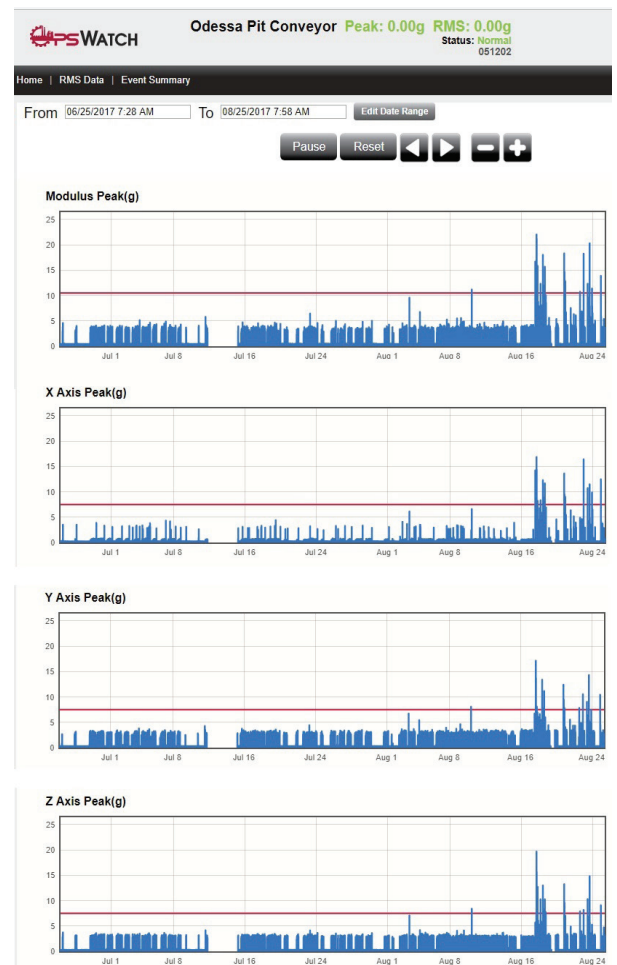
OpsWatch Unit

Acceleration Range	± 1 to ± 200G
Amplitude Scale (Programmable)	1G, 3G, 30G, 100G, 200G
Velocity Ranges (Programmable)	± 1 cm/s, ± 3 cm/s, ± 10 cm/s, ± 30 cm/s, ± 100 cm/s, ± 200 cm/s
Scale Factor	± 2%
Additional Error Other Ranges	± 2%
Operating Temperature Range	-40 $^{\circ}$C to 85 $^{\circ}$C
Dimensions	100 mm x 110 mm x 40 mm
Weight	1180 grams
Enclosure Rating	IP67
Case Material	Aluminium

Communication Interface

WiFi Interface	IEEE 802.11
Operating Frequency	2.412 – 750 GHz
Data Rate	1.25 Mbps

External Power

External Power Source Voltage	6 – 30 V
External Power Source Average Current (normal @28V) (clearing or downloading @ 28V)	35 mA 50 Ma