IIot Analytics for Industrial Assets

VibScope is an analyser and activity tracker for industrial assets like pumps, gearboxes, diesel engines, compressors, motors, conveyor systems, and more.

Features

- Fully wireless | installable on-the-fly, multiple bracket-options available
- Ultra-low power consumption: up to 10-year operation on a 17Ah D-cell battery.
- Rugged IP69k packaging, tested in extreme conditions (including marine); Lightweight (250g).
- Asset positioning mesh networking capable.
- Attractive low price of acquisition and operation.
- Historical Twin, full-time waveform analytics.
- iOS / Android apps & web dashboards available for fleet management.
- Configurable notifications based on running hours and time-waveform analytics.
- Configurable project-specific algorithms
- Temperature sensor included for contextual insights.

Applications

- Machine-hour tracker, full vibration-waveform acquisition, FFT analysis, RMS value trending and more
- Trending of temperature and vibration diagnostics on a rotating equipment fleet.
- Tracking the location of assets in a logistics environment.
- Tracking and protecting movable assets in a construction area.
- Equip (industrial) assets with an identity.
- Black-box for industrial machinery.
- Industrial assets operating in offshore or other rugged environments (resistant to full submersion).
- Predictive maintenance of a fleet of industrial assets.

Technical Specifications	
3-axis historic data resolution	Minute-sampling: 8-month memory Hourly sampling: 40-year memory
Sensor Measurement	3-axis vibration measurements Temperature measurements
Processing	On-board calculation of min, max avg and std deviation for each axis
Sensing Range	High G version ± 8g - ±64g High Res version ± 2g - ±16g
Sample Rate	Up to 25.6kHz Output Data Rate
Mechanical Signal bandwidth	High G version: up to 8500 Hz High Res version: up to 4200 Hz
Housing	IP69k compliant robust housing
Vibration Analytics	Measures and transfers full vibration-waveforms for gathering advanced insights

Environmental Specifications	
Operational	-40°C / +85°C
Storage	Recommended: 30°C max

User Specifications
iOS and Android apps included, gateway options available
Local wireless connectivity
UWB ranging for precise indoor / outdoor positioning

Easy installation with application-specific bracket