BSS Analytics

Remote

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Remote Asset Monitoring

BSS Analytics transforms asset maintenance by making critical performance data accessible and actionable. Our Condition Monitors give you real-time insights on an intuitive dashboard, for continuous remote asset monitoring

Gain instant insights into asset health, facilitating early issue detection, extended equipment lifespan, and maximized uptime. Customize alert thresholds based on ISO Standards or your unique requirements to drive data-informed maintenance decisions.

Our advanced analytics platform transforms complex data into clear, actionable visualizations, turning raw information into valuable insights. Access always-available, detailed time-series data and automated reports to conduct in-depth analysis. This empowers you to make data-driven strategic decisions.

Optimize your maintenance operations, minimizing unplanned downtime, extending asset lifespan, and maximizing your return on investment.

Applications by Industry

Maritime Transportation
Monitor critical components like engines and navigation systems to prevent unexpected stops and ensure timely, efficient journeys.

Manufacturing Plants
Get real-time alerts on machinery performance to avoid production halts. Ensure that your production line is always up and running smoothly.
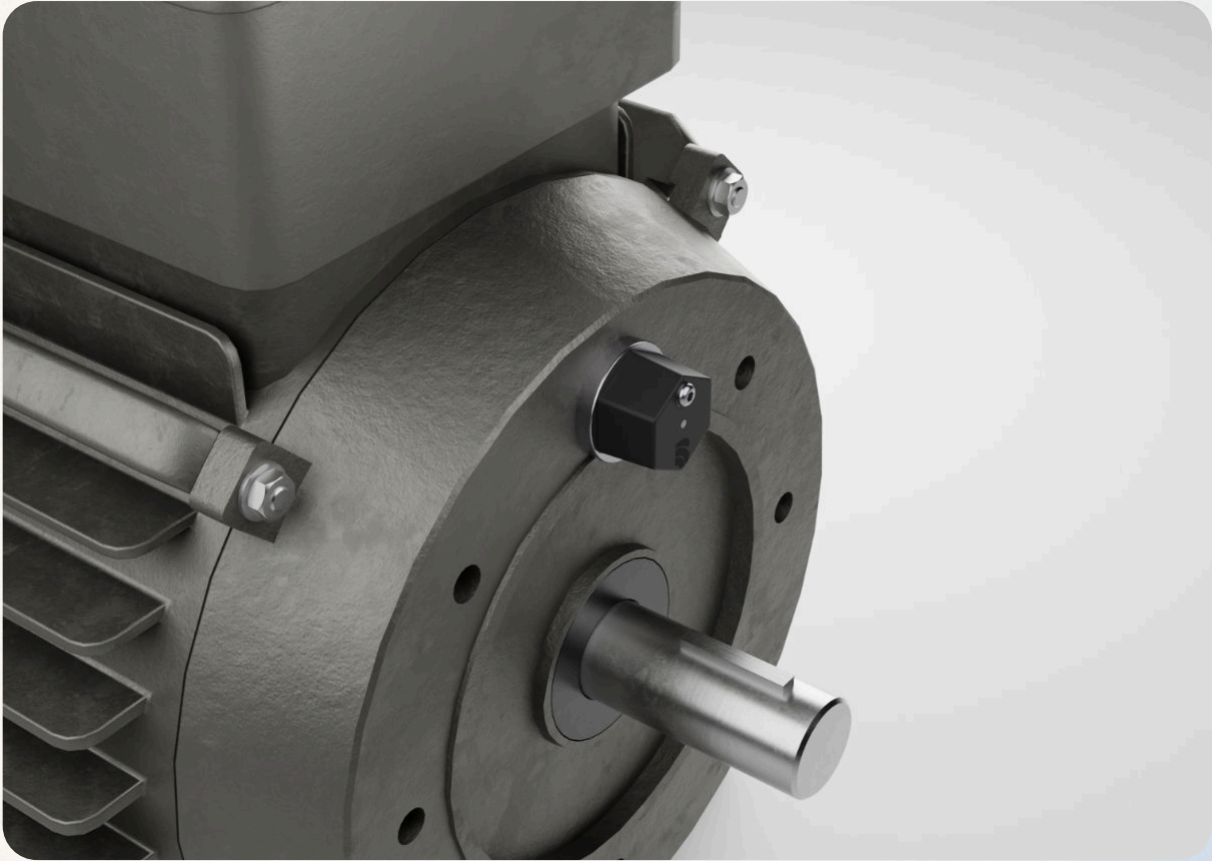
Power Generation
Keep an eye on generators, turbines, and other essential equipment. Catch early signs of wear to ensure consistent power output.

Oil and Gas
Monitor drilling and extraction equipment, detect anomalies, and maintain safety and compliance with a reliable, remote solution.

Water Treatment Plants
Ensure equipment like pumps and filters operate optimally. Track performance data to support water quality standards and reduce maintenance overheads.

Condition Monitor mounted on electric motor

Machine Health Monitoring

Advanced vibration sensors provide continuous insight into machine health, detecting subtle changes in vibration patterns to predict and prevent equipment failures.

Remote Asset Visibility

Monitor your entire fleet from anywhere, anytime, with 24/7 access to critical performance data, reducing the need for on-site inspections and improving overall operational efficiency.

Cloud Platform

Simple interface that transforms your complex data into clear, actionable insights, enabling quick decision-making with report generation.

Predictive Maintenance

Forecast maintenance needs based on ISO Standards, and schedule repairs proactively, minimize downtime, and extend equipment lifespan.

* Estimated battery life given hourly sampling at 6667 Hz for 10 seconds

Gateway

Specifications

Mobile
2G, 3G, 4G compliant LTE-M, NB-ioT and GSM

WAN
Wireless LAN, 2.4GHz and 5.0GHz IEEE 802.11b/g/n/ac wireless
Hotspot/Mesh network

Flash Memory & RAM
16 GB eMMC Flash
2 GB RAM

Powering Options
9-40 VDC
230V AC

Operational Temperature
-20°C to +85°C

Mounting Options
DIN Rail mounting

Dimensions & Weight
Size: 85 x 85 x 35 mm, 180g

VPN
UI for easy setup
Direct Access from cloud platform

Condition Monitor

Specifications

Connectivity
Wireless connection to Gateway
Up to 20m range

Sensor
3-Axis accelerometer
± 16 g acceleration full scale
0-6667 Hz frequency response range
Noise density, 75 µg/√Hz

Resolution
Configurable frequency resolution, 0.01
to 16 bit.

Power
Long-lasting battery: ~5 years*

Operational Temperature
–20° C to +85° C

Mounting Options
Powerful magnet bracket
Epoxy fastening
Screw mount

Dimensions & Weight
Size: Ø52 x 35 mm, 56 g,
188 g with bracket.
Atax qualified

Machine Insights, Performance Foresight

BSS Analytics transforms machine signals into actionable insights, offering real-time monitoring of critical components. Extend equipment lifespan, minimize downtime, and optimize operations.

With customizable alerts and predictive maintenance, BSS Analytics help you stay ahead of issues, make informed decisions, and drive peak performance across industries.

Contact

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