AMS Wireless Vibration Monitor

Wireless IIoT to Simplify Condition Monitoring on an Expanded Number of Assets.

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RMS RELIABILITY MAINTENANCE SOLUTIONS

EMERSON

BY THE NUMBERS

46%

of plants plan to decrease unscheduled downtime by evolving to predictive maintenance strategies.

86%

of plants outsource some of all their maintenance operations.

39%

of plants plan to decrease unscheduled downtime by expanding their monitoring capabilities.

WIRELESS, REDEFINED

Conditions today continue to redefine requirements in the industrial marketplace. Manufacturers seek ways to thrive even as they struggle with challenges such as reducing carbon footprint, adjusting to supply-chain issues, and more.

Emerson continues to step up for users. We've redefining wireless vibration — maintaining the sophistication required for solutions yet enabling a simpler implementation. Eight key areas improve users' day-to-day operations and help them engage with data in more meaningful, expansive ways.

Experience You Can Count On

With more than 35 years of experience in predictive analysis — 20 of those including wireless vibration monitoring — we have deep understanding of users and their aspirations.

Emerson embodies the value of a single-vendor approach with technology roadmap that paces to meet the needs of even our most advanced and data-centric customers. It's user friendly and intuitive enough to be deployed in a pilot and scaled over time.

Our ultra-rugged, versatile wireless technology outclasses other rush-to-market devices who lack industrial expertise.

Superior Data Quality and Quantity

Most wireless vibration sensors today offer either an overall view of vibration data without the details to back it up, or raw data that requires experience to analyze it. Emerson's AMS Wireless Vibration Monitor offers both and more.

Collecting more data than any vibration sensor currently available, our solution also delivers a highly accurate overview with the data that moves you beyond simple fault detection and into root cause analysis and a solution within reach.

WIRELESS, MADE EASY

Easy Configuration and Installation

During traditional manual data collection, a technician might not be certain that the sensor orientation is consistent from one time to the next. Emerson's latest wireless device needs only one easy installation to be ready for consistent data each and every time.

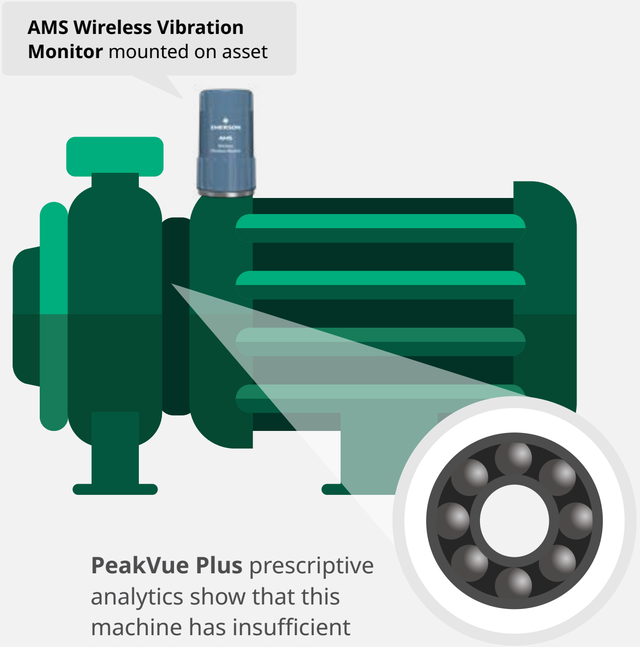
Reduced Manual Effort

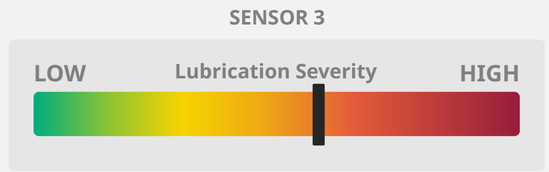
The combination of wireless and handheld monitoring is powerful. By removing simple, manual data collection from the to-do list, the AMS Wireless Vibration Monitor gives personnel time for troubleshooting. Personnel then can use a handheld's embedded testing capabilities to address problems identified by the wireless monitoring.

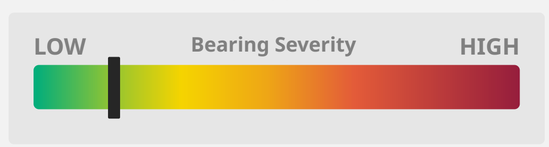
Simple Battery Management

Emerson understands the balance between battery life and data transmission requirements. Sending only the most important data – less often – leads to longer battery life and healthier wireless networks. Inevitably the battery will need changing, and customers want quick, readily available sources.

The AMS Wireless Vibration Monitor uses a readily available industrial lithium battery than can be ordered online from multiple distributors. The battery can be changed simply, even in hazardous-area environments.







WIRELESS, BUILT FOR SAFETY

Actionable Information

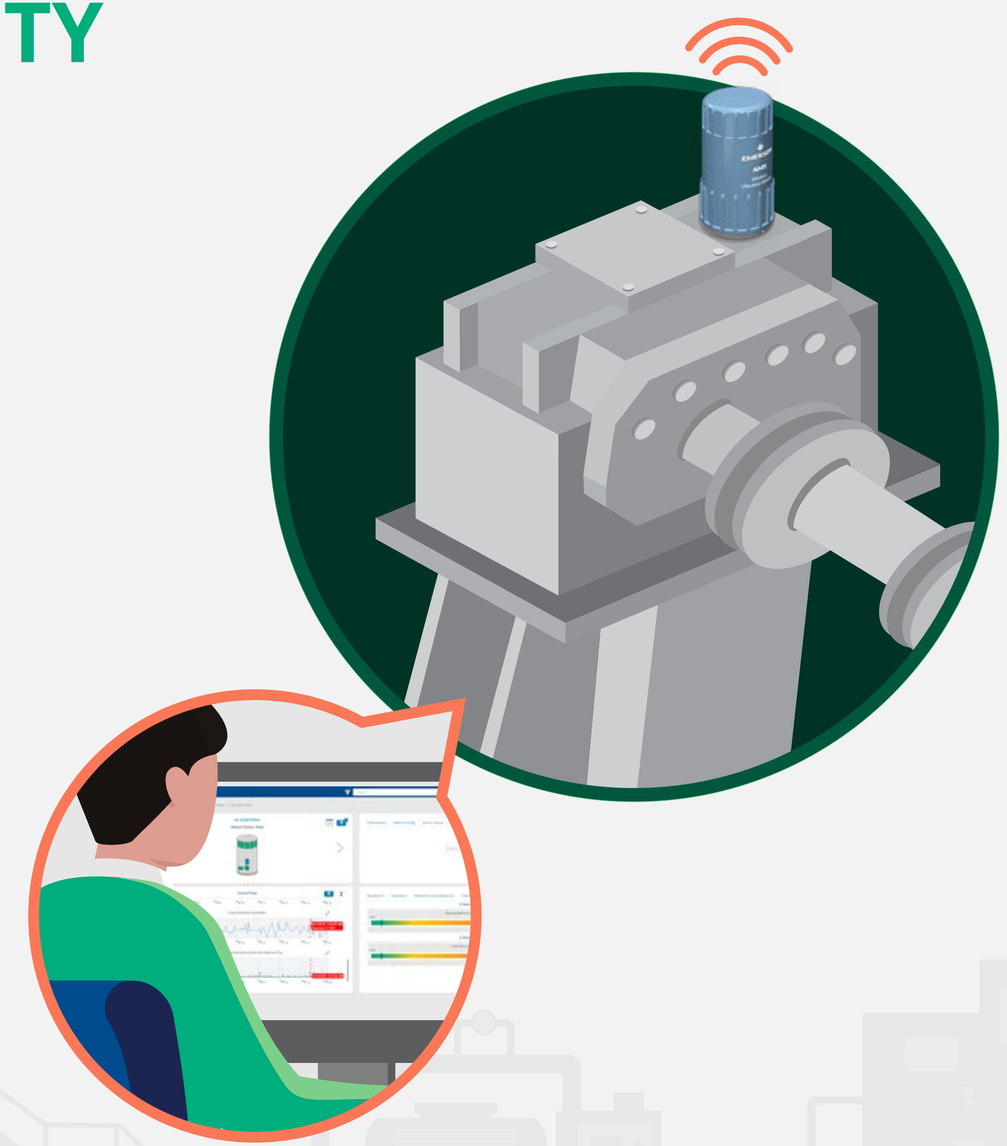
Some sensors deliver an overall vibration value from your asset, but not enough data to determine the cause. Others bog down your network with too much data that you have to dig through for answers. The AMS Wireless Vibration Monitor features prescriptive analytics. Even though it captures all the data you could want, it transmits only the information you need to address the cause of vibration.

Wireless Protocols For Safety and Reliability

Customers have multiple options for transmitting wireless vibration data, including Bluetooth, Wi-Fi, and even 5G and LTE cellular radio. With protocol options to choose from, Emerson chooses to work primarily with WirelessHART for its trusted reputation for safety and reliability.

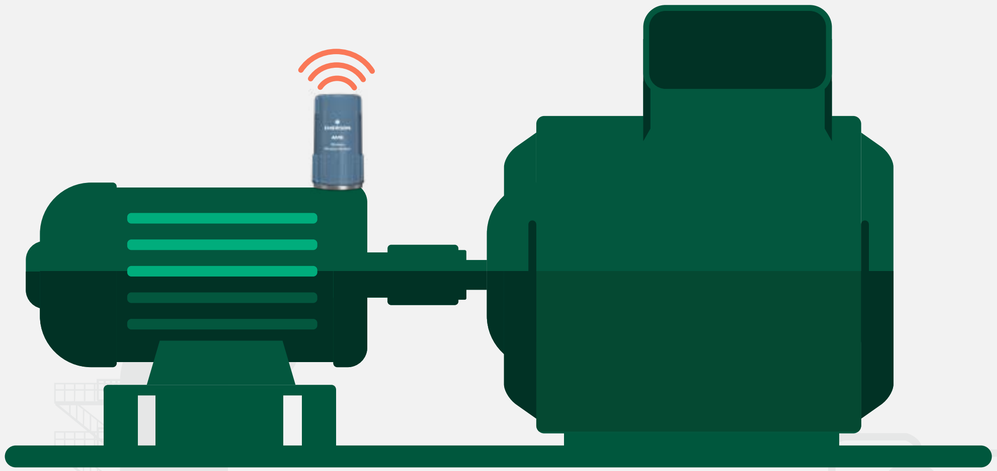
Large Reliable Network

Emerson’s wireless vibration network supports more units per gateway than most other vendors offer. In addition, units can be installed on an existing WirelessHART network with other manufacturers’ devices.



WIRELESS, PART OF THE WHOLE

Wireless fits into your organization as part of a whole solution – either with or without rethinking your standard practices. Wireless and portable devices can work together as a complement to your existing route-based monitoring practices. Practices can change to save personnel for other responsibilities or areas of expertise.



Condition Monitoring Services. Helping Everyone Perform Better

Emerson's AMS Condition Monitoring Service is tailored to your organization. The services can supplement an existing program with on-demand analysis. Or the team of Emerson experts can completely manage condition monitoring for your organization.

A single interface brings a comprehensive strategy for condition monitoring to anyone across the plant. It grows a digital eco-system for integrating portable, wireless, and online monitoring into a single software platform with common interfaces and tools.

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