

HONEYWELL VERSATILIS FOR CONDITION BASED MONITORING

Maximize Uptime, Reliability, and Efficiency



Honeywell

Honeywell Versatilis™ transmitters unlock the possibilities for condition-based monitoring of rotating equipment, including pumps, motors, compressors, fans, blowers, and gearboxes.

By 2030, condition-based maintenance in manufacturing industries could add \$290-530M in value.¹ To capture this, though, technology providers must raise their game to ease installation, enhance interoperability and cyber security and ensure the lowest possible wireless infrastructure costs.



Honeywell Versatilis transmitters help meet these needs for effective condition based monitoring:

- Measuring vibration, surface temperature and acoustics
- Communicating measurements on LoRAWAN®
- Integrating with commercial off the shelf gateways (COTS) for interoperability and supporting COTS LoRA to MQTT gateways for integration with MQTT clients
- Offering configuration in minutes over Bluetooth
- Supporting multiple/ flexible mounting options

They also come with a built-in FFT algorithm, provide IP67 Protection, and are certified for intrinsic safety. Finally, they deliver low power consumption and a long battery life.



MAXIMIZE PLANT UPTIME:

Honeywell Versatilis transmitters help address the cost of rotating equipment failures, over half of which are mechanical.² Asset imbalance, misalignment and bearing related issues are common issues, and when things go wrong, safety, productivity and efficiency all suffer.

Combined with Honeywell or third-party analytics software, Honeywell Versatilis transmitters can help predict these potential failures before they happen and avoid unplanned downtime.

They provide reliable measurements and have the capability to transmit time series and frequency series data. While the time series root mean square of vibration measurements can indicate upcoming equipment trouble, frequency-amplitude changes can indicate a specific part of rotating equipment under stress and even the nature of the stress. It's an early warning for vibration analysts and reliability personnel.

Mobile Configurator Applications

Honeywell Versatilis transmitter can be configured through mobile application tool through Bluetooth® in minutes. The tool can be used to connect, configure, set limits, view live as well as historical data. The configurator application is capable of running on mobile devices and tablets supporting IOS, Android and Windows operating systems.



A RANGE OF ISSUES: ONE SOLUTION

Honeywell Versatilis transmitters can help identify a variety of issues. They include higher vibration amplitudes in the horizontal plane, which indicates potential imbalance issues in the rotating equipment; and higher vibration levels in the axial plane compared with the horizontal plane, possibly indicating misalignment and bent shaft problems. Similarly, a trend showing increasing vibration amplitude can confirm the severity of the faults.

In the frequency series data, meanwhile, if peak values occur at fundamental frequency as well as two, three or four times the fundamental frequency, that will confirm that the issue is real.

Finally, surface temperature trends can help identify potential issues with lubrication effectiveness and potential faults due to pipelines clogging in the case of air-cooling systems.

Honeywell Versatilis™ transmitters provide the data for new insights and visibility of rotating equipment: intelligence that can improve safety, reliability and efficiency, deliver new value for your business.

Source:

¹ McKinsey, "The Internet of Things- Catching up to an accelerating opportunity", November 2021

² IEEE study

For more information

To learn more about Honeywell's products, visit process.honeywell.com or contact your Honeywell account manager.

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