



FEED AND BIOFUEL
METRIS VIBE
CONDITION MONITORING

INTEGRATIVE SOLUTION

Metris Vibe, a new kind of vibration and temperature sensor, operates via a wireless connection to critical equipment that is otherwise very difficult to access or subject to safety issues. This vibration sensor can analyze the status of the respective equipment at any given time.

It provides data via Bluetooth low-energy technology to a gateway that sends the relevant information to the Condition Monitoring application of the Metris UX Platform or to the Metris Vibe mobile app.

PREDICTIVE MAINTENANCE

By providing meaningful information

on the respective assets, the sensor can be used to increase productivity, efficiency, and reliability or even plan outages to better advantage for overall operations. Proper maintenance performed at the right time increases the lifetime of an asset and lowers the overall investment required.

Integrative solution for condition monitoring

The Metris Vibe sensor measures vibrations in three axis and also temperature. The data are communicated via Bluetooth (BLE) through industrial gateways to a server/cloud for further analysis and storage. The sensor records the vibration stream in order to monitor the condition of the machinery and systems, thus providing advanced fault detection methods.

TECHNICAL CHARACTERISTICS

Frequency range: 0 Hz to 6400 Hz

Sampling frequency: 100 Hz to 25600 Hz

Number of measurement values per axis: max. 6000

Sensitivity: ±8 g, ±16 g, ±32 g

Data acquisition: 16-bit ADC

RF communication: 2.4 GHz low power, BLE

MCU: Ultra-low power consumption processor, 32-bit

Software: Wireless firmware update

Mounting orientation: all orientations

Mounting/system connection: M8 x 1.25 thread

Dimensions: Ø 34.6 mm x 24 mm

Weight: 60 g

Battery lifetime: up to 3 years

EN 60529 protection: IP68

Operating temperature: -40 °C to 85 °C



Benefits

METRIS VIBE BENEFITS

- Enables long-term cost savings
- Easy to install
- First indication of machine health
- Wireless connection
- Up to three years battery life
- Interface to Metris UX
- App for Android and iOS devices

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