



Wireless vibration monitoring

Battery-powered vibration sensor VWV

- For overall vibration and temperature monitoring in places that are difficult to access
- Radio technology with intelligent mesh topology for efficient data transmission
- Easy implementation from sensor to data visualisation



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Description	Order no.
Wireless vibration sensor 1 measurement axis	VWV001
Wireless vibration sensor 3 measurement axes	VWV002
Gateway for wireless vibration sensors	ZB0929

Vibration monitoring for simple machines

The battery-operated vibration sensor in combination with the ZB0929 Gateway and **moneo|RTM** enables overall monitoring of the machine condition according to ISO 10816. Together with the integrated temperature monitoring it is possible to detect imminent damage to machines and schedule demand-oriented maintenance to prevent major damage and costly downtimes.

Fast integration, reliable communication

The wireless design allows the sensors to be installed on machine parts that are difficult to access. Data is then transmitted to the gateway directly or via mesh technology - and thanks to low power consumption and a high-capacity battery, it lasts for at least four years.

Extensive gateway connectivity

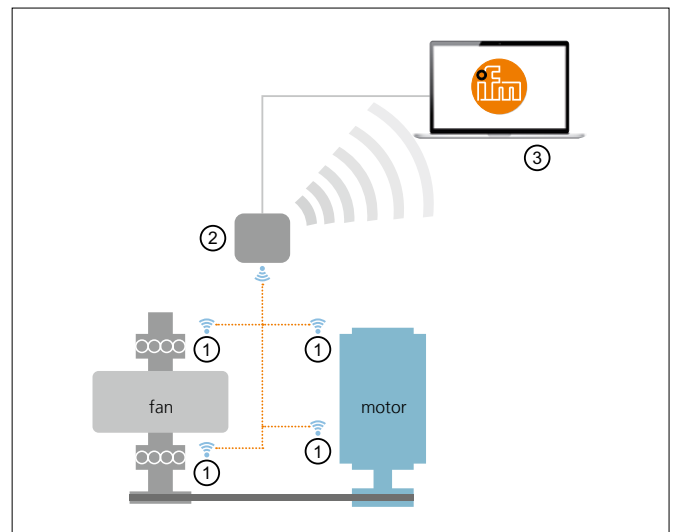
Up to 30 sensors can be connected to the gateway at the touch of a button. In addition to a wired Ethernet interface, the gateway itself also has a variety of wireless connection options.

Seamless integration into the IT level

Seamless integration into the moneo IIoT software makes the data quickly and easily available for analysis and visualisation. This makes it easy to establish reliable IT-based plant monitoring.

Common technical data VWV001, VWV002		
Measuring range	[mm/s]	0...25
Frequency range	[Hz]	10...1000
Ambient temperature	[°C]	-40...85
Communication	[GHz]	2.4 GHz (ISM band)
Protection rating		IP68

Technical data ZB0929		
Operating voltage	[V DC]	5
Communication via cable		Ethernet TCP/IP
Wireless communication		LTE CAT 1, Wi-Fi, NB-IOT
Protocol		MQTT, HTTP
Protection rating		IP 20



- 1) VW Vibration sensor
- 2) ZB0929 Gateway
- 3) moneo|RTM

BEST FRIENDS

We reserve the right to make technical alterations without prior notice. · 09.2023
ifm electronic gmbh · Friedrichstr. 1 · 45128 Essen



moneo|RTM
Analysis software for simple condition monitoring



moneo|edgeConnect IoTCore
Required interface for the integration of IoT Core devices



Ethernet-Switch
Field-ready switch with six ports



For further technical details, please visit:
ifm.com/fs/VWV001