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# AV SENSOR 2000R

wireless industrial  
diagnostic system



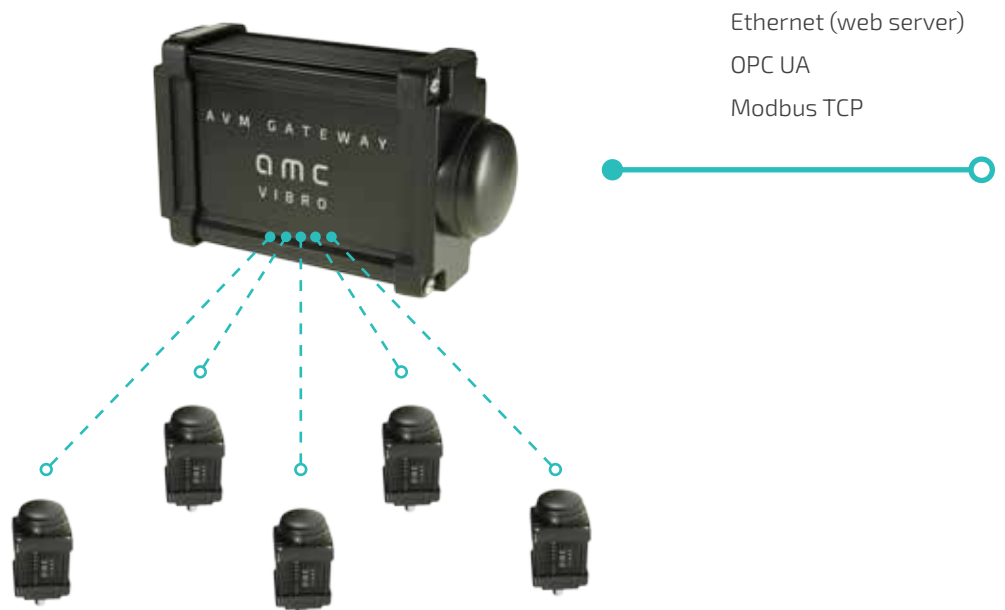
# system overview

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**AV SENSOR 2000R** are wireless vibration and temperature sensors for industry applications to monitor your machinery equipment such as: fans, gearboxes, pumps, compressors. It saves your time and money due to the fact that the wireless technology spares you the hassle of wire routing to the machine, the costs of laying cable routes and unforeseen repairs. It has a simple and quick assembly / disassembly and compatibility with other systems for maximizing your comfort.

Nowadays in every business it is crucial to optimize the service life of machinery to profit from its usage. AMC VIBRO wireless diagnostic system provides you early detection of malfunction, thereby helps to avoid unpredictable stops and losses.

This dedicated system is equipped with an OPC UA and Modbus TCP communication protocols. Open communication protocols and the OPC server allows you to integrate our system with other devices. In addition we deliver to you our **free of charge website application** to present collected data and to enable its reconfiguration- never pay for software again!







# av sensor 2000r

The **AVS 2000R** is a wireless dual-channel, fully configurable unit for monitoring and machine diagnostics. The module allows you to send information about the condition of machines via the radio network to the system where they are processed further. Measurement data are collected periodically according to the configured interval and in case of communication problems are stored in the internal memory of the device. Transmitted at the time of re-connection so the continuity of your measurement is always maintained.



## AVS 2000R FEATURES AND TECHNICAL DATA

- 2 axis
- Calculated estimates: accZP, accRMS, accKURT (kurtosis), velRMS, ISO-velRMS, envPP (acceleration envelope Peak-Peak), envRMS (acceleration envelope RMS), RMS value of acceleration and velocity in eight defined bands (BEC)
- Temperature measurement
- Wireless data transmission via License-free 868/915 MHz frequency bands radio network
- Range up to 150 m in industrial environment
- Electromagnetic interference immunity
- Up to 8 years without battery replacement
- Compact housing

PARAMETER	DESCRIPTION
<b>Axes</b>	2
<b>Sensing element</b>	Piezo-ceramic crystal
<b>Measurement range</b>	±20 g Peak
<b>Frequency response</b>	1 – 10 000 Hz
<b>Transverse sensitivity</b>	5%
<b>Sampling frequency</b>	40 kHz
<b>Temperature measurement range</b>	-40°C to 85°C
<b>Radio standard</b>	ISM 868 MHz
<b>Wireless range</b>	Up to 150 m in a typical industrial conditions
<b>Battery</b>	2 x 3,6 V (Li-SOCL <sub>2</sub> )
<b>Battery lifetime</b>	Up to 8 years (2 measurements per day)
<b>Dimensions</b>	65 x 140 x 65 mm
<b>IP rating</b>	IP65

# av monitor gateway

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**AVM GATEWAY** is responsible for coordinating the wireless network created by the AVS modules. The main task of AVM GATEWAY is to manage the sensor network and collect your data from the devices. Gateway has an OPC UA and Modbus TCP communication protocol for integration with control systems. This module is equipped with a free of charge website application to present collected data and to enable its reconfiguration.



## COMMUNICATION

- Modbus TCP
- OPC server
- Ethernet (web server)

## BASIC FEATURES OF AVM GATEWAY

- Configuring the sensor network by the website Coordinated RF 868 MHz radio network
- Collecting your measurement data from sensors
- Saving your measurement data on SD card
- Monitoring network status
- Indicating warnings and alerts
- Monitoring the condition of sensor batteries

# av monitor gateway

## PARAMETER

## DESCRIPTION

Power supply	12-36 VDC (24W)
Operating temperature	-25°C to +85°C
IP rating	IP65
Communication	868 MHz, Ethernet
Communication protocol	Ethernet, Modbus TCP, OPC UA



# contact us

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## WOULD YOU LIKE TO SEE HOW IT WORKS?

We offer a **free demonstration of the product!** Schedule it now and don't forget to ask about our **free of charge technical support service!**

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