

TECH
VIBRO
WORKS

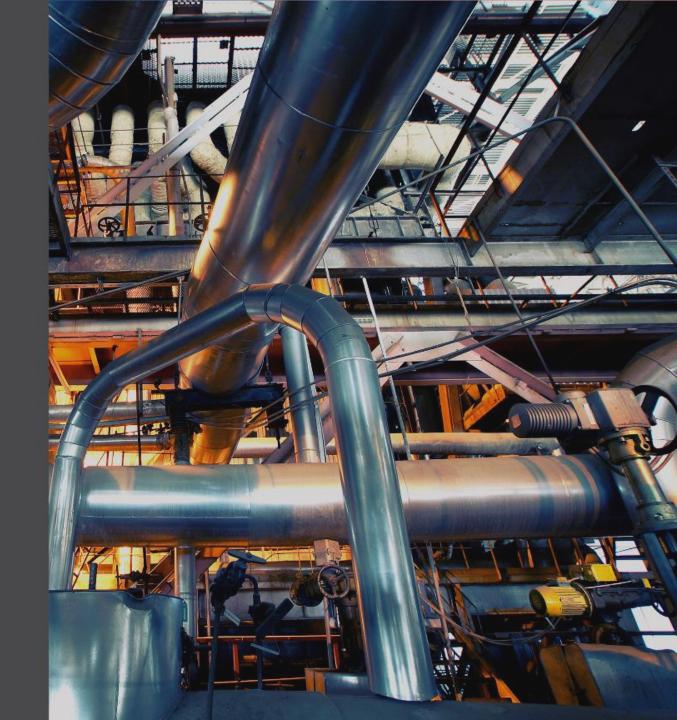


a m c

Independent expert in advanced software and electronic solutions for industry.

Specialization: condition monitoring, diagnostics, testing and control.

www.amctech.pl www.amcvibro.pl www.amcworks.pl



C T E C H

02. AMC VIBRO

sales of machinery maintenance products and services

O T C W O R K S

01. AMC TECH

electronics, mechanics and software design for industry



03. AMC WORKS

electronics, mechanics, and automatics contract assembly

AMC team



+100 employees



+20 years of experience



electronics, diagnostics, and automatics engineers, programmers



ISO9001:2008 certificate

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ON C VIBRO















O M C VIBRO

AMC VIBRO

offers machinery condition monitoring, diagnostics and maintenance products and services. Our solutions support maintenance departments at industrial facilities around the world.







vibro

laser

ultrasounds





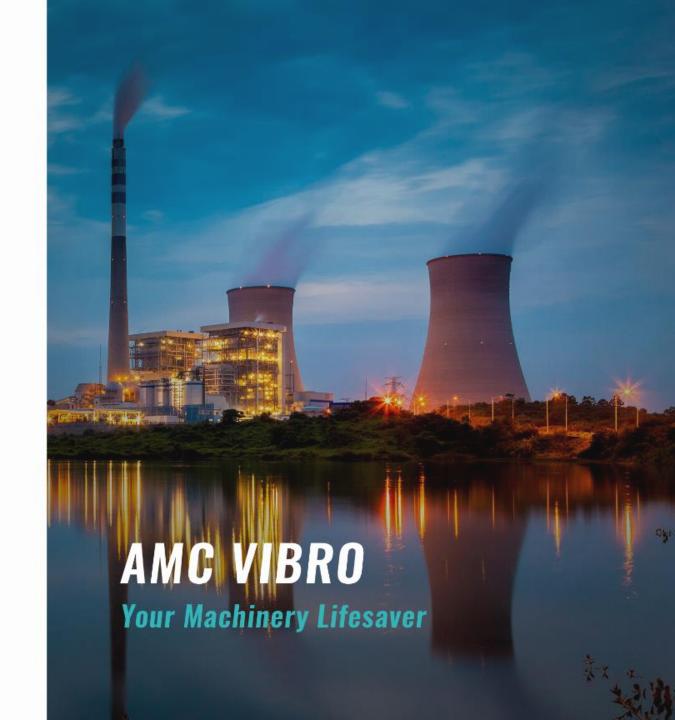


current

infrared

oil

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Wireless sensors

The biggest advantage of the system is:

- > cost-effectiveness,
- > lack of wires,
- > simple and quick assembly/disassembly,
- secure data
- > repeatable measurements



AV SENSOR 2000R AV MONITOR GATEWAY

wireless industrial diagnostic system

AVS are wireless vibration and process parameters 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.



AV SENSOR 2000R

Key information

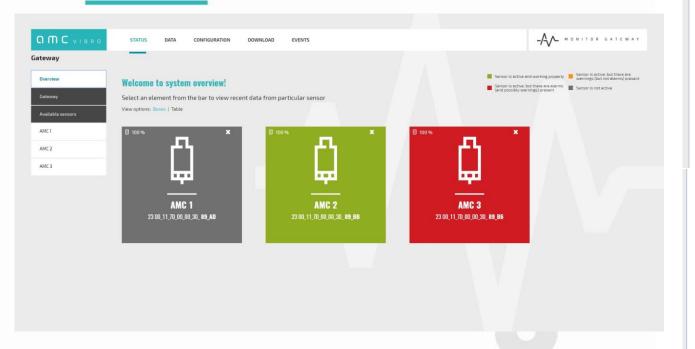
- 2 axis
- > 8 calculated estimates
- > 8 customizable narrowbands
- > Temperature measurement
- > Wireless data transmission
- > Range up to 150 m in industrial environment
- > Up to 6 years without battery replacement
- Compact housing







AV SENSOR 2000R software

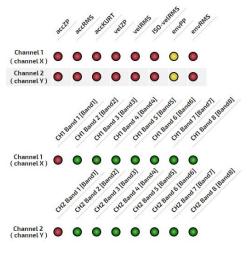


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Status (03.07.2018 - 16:18:05)

 Battery Life [%]: 100
 Temp [oC]: 0.0
 Voltage supply [mV]: 6802
 Estimates to send [-]: 0
 Free memory [-]: 8095

Sensor configuration is up to date



Current Values

Channel time: 03.07.2018 - 16:18:05

Value	Channel 1 (channel 1)	Channel 2 (channel 2)	
accZP [m/s^2]	74.29		
accRMS [m/s^2]	4.98	4.75	
accKURT [-]	14.94	1.98 139.09 59.43	
velZP [mm/s]	140.17		
velRMS [mm/s]	60.57		
ISO-velRMS [mm/s]	33.50	32.85	
envPP [m/s^2]	1.05	0.93	
envRMS [m/s^2]	139	1.43	

Value	Name (channel 1)	Channel 1 (channel 1)	Unit	Name (channel 2)	Channel 2 (channel 2)	Unit
Band 1	CH1 Band 1	4.60	m/s2 RMS	CH2 Band 1	4.56	m/s2 RMS
Band 2	CH1 Band 2	0.39	m/s2 RMS	CH2 Band 2	0.50	m/s2 RMS
Band 3	CH1 Band 3	0.51	m/s2 RMS	CH2 Band 3	0.35	m/s2 RMS
Band 4	CH1 Band 4	0.25	m/s2 RMS	CH2 Band 4	0.33	m/s2 RMS
Band 5	CH1 Band 5	0.40	m/s2 RMS	CH2 Band 5	0.26	m/s2 RMS
Band 6	CH1 Band 6	0.58	m/s2 RMS	CH2 Band 6	0.39	m/s2 RMS
Band 7	CH1 Band 7	0.71	m/s2 RMS	CH2 Band 7	0.42	m/s2 RMS
Band 8	CH1 Band 8	0.57	m/s2 RMS	CH2 Band 8	0.59	m/s2 RMS

Stationary systems

AV MONITOR 1000 SERIES (AVM 1000)

SINGLE CHANNEL VIBRO MONITOR / AVM 1000 series allows for continuous monitoring and preliminary diagnosis of rotating machinery with fixed and variable speed. It is an affordable option for customers who want to avoid a major accident. The series consists of modules:

- AVM 1000
- > AVM 1002D
- > **AVM 1002DPS**
- > AVM 1002DK/DS/DP





Stationary systems

AV MONITOR 2000 SERIES (AVM 2000)

DUAL CHANNEL VIBRO MONITOR / AVM 2000 series allows for continuous monitoring and diagnostics of machines, including the detection of such defects as unbalance, overload or cavitation.

Series consists of modules:

- AVM 2105D
- **AVM 2105DV**
- **AVM 2105DK/DP**
- AVM 2115DA





Stationary systems

- > Continuous real-time data processing
- > Built-in diagnostic analyses
- > Parallel data processing for each signal
- > Reduction of false alarms
- Modular structure based on functional cards
- > Historical data recording
- > 24bit measurement resolution, sampling up to 100kHz
- > Integration with SCADA systems
- > Relay outputs for protection
- Access from any place in the world (Ethernet)
- → AVM 4000EU → AVM 4000+U
- AVM $4000+V \rightarrow AVM LCD$
- > AVM 4000+P





Accessories

AV TEST BENCH is a complete research-educational test bench for rotating machinery diagnostics.

AV TEST BENCH enables:

- analysis of real machine-induced vibration signals
- > study of diagnostic system design and configuration
- programmable rotational speed and load
- introduction of bearing load and faults
- > introduction of imbalance
- > introduction of misalignment
- › introduction of gear faults
- study of structural vibrations(supporting base and bearing casings)





Energobaltic - case study

- 2007 installation of the diagnostics system on the
 Dresser-Rand reciprocating compressor
- > Two large system updates
- The system includes 20 vibration measurement channels on:
 - compression chamber,
 -) intermediate chambers,
 - > bearing of the compressor crankshaft,
 - > engine bearings.



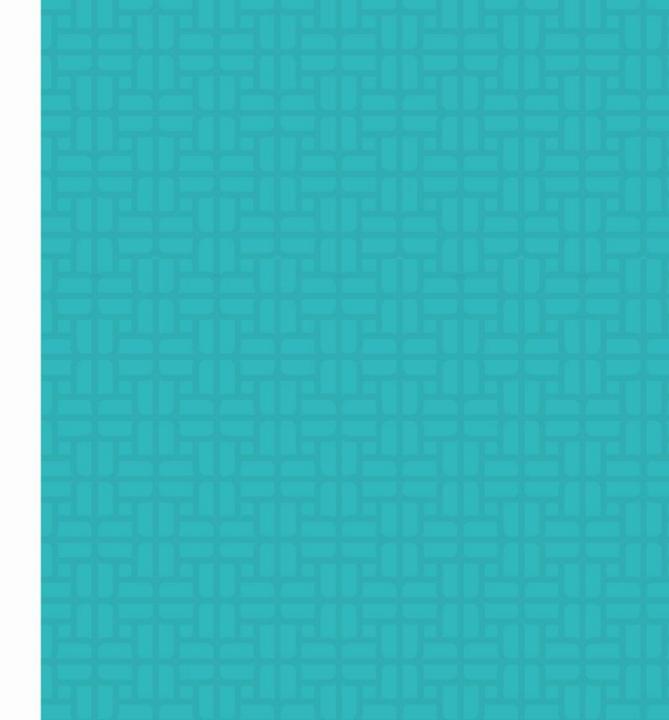
Thank you for your attention

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