



VIBROMETRIX



VIBROMETRIX Asset Protector

Machine health monitoring: the key to reliable assets

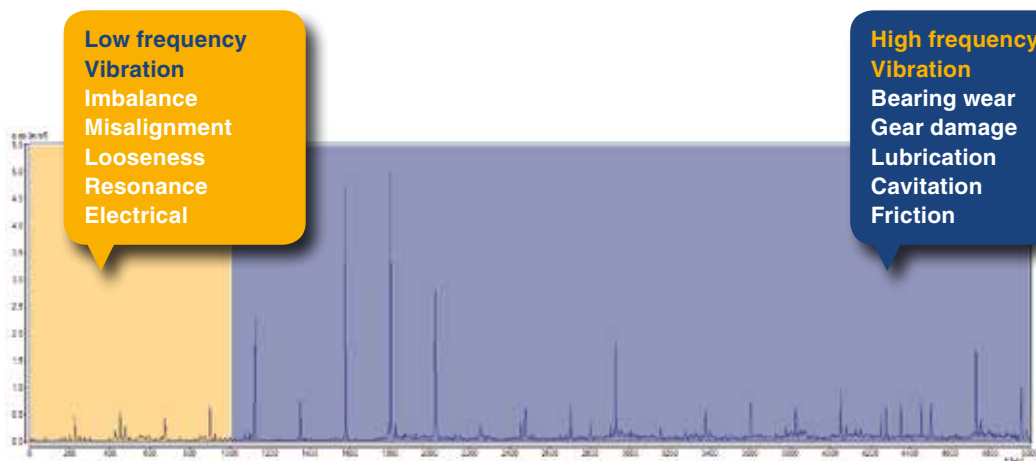
Get the full picture

Monitor both low and high frequency parameters

Our body gives us plenty of warning signs when our health deteriorates. A machine does just the same. Using vibration based condition monitoring allows us to predict and avoid mechanical failures. The outcome is a more reliable machine with less production losses, planned overhauls and a more profitable asset.



Monitoring vibration levels according to ISO, VDI or API guidelines only partially reflects machine health information. By also measuring in the high frequency range VIBROMETRIX Asset Protector draws the full picture and detects early bearing wear, lubrication problems, gear damage, cavitation, rotor bar issues and a whole lot more frictional and shock vibration related issues compared to only monitoring the low frequency harmonic vibrations.



A LAYERED APPROACH

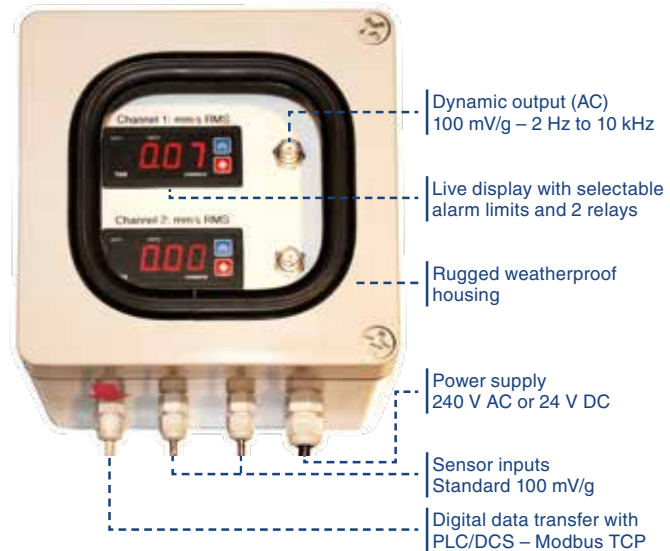
VIBROMETRIX Asset Protector is not just a measuring device, it's a layered concept including several steps:

- Professional site survey and technical monitoring advice
- On-site installation and commissioning services
- Training and field assistance
- High-end vibration analysis and trouble shooting
- Root-cause analysis and improvement proposals

VIBROMETRIX Asset Protector

Industrial machine monitoring and protection

VIBROMETRIX Asset Protector is an industrial machine health monitoring system that protects machines from failure. It is based on vibration monitoring of overall values in the full frequency range where machine components vibrate (including both low and high frequency).



HIGHLIGHTS

Dynamic output

To pinpoint the exact cause of an alarm triggered by an aberrant vibration level, the analyst will hook-up an FFT signal analyser to the 100 mV/g Asset Protector output. The output is compatible with all major brands of signal analysers on the market.

Integration with PLC or DCS

A connection to plant control and monitoring systems is easy with VIBROMETRIX Asset Protector. Both digitally through Modbus/TCP or analogically through relays and mV outputs. WiFi communication is supported too.

Economical and modular

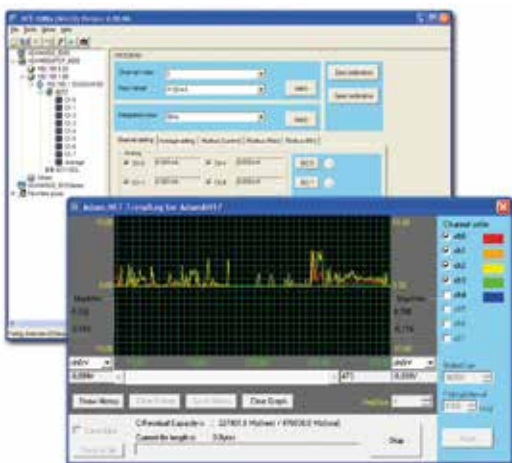
No need for massive online investments upfront. First target the most important machines and expand the system over time thanks to the modular system architecture.

Industrial applications

VIBROMETRIX Asset Protector is tuned to application specific requirements such as ATEX zones, waterproof measurements, high temperature machines, EMC interference, rail requirements etc ...

Live display

A bright front panel displays real-time information about the vibration amplitude and the state of the relay alarms. The behaviour of the built-in relays is easily programmable via keys on the display and can be locked for unauthorized access.



Open architecture:
digital overall values for the vibration levels are easily readable by MODBUS/TCP and other fieldbus devices

Software included in VIBROMETRIX Asset Protector

Sensors, cables and connectors

One size doesn't fit all

The first step in a successful monitoring implementation is the acquisition of the vibration signals on the machines. Because of the difference in requirements it is essential to select the right sensor and the adequate cable and connector. One size fits all is not an option if the system is to be modular and widely applicable.

SELECTION PARAMETERS

Take advantage of the expertise of our engineers who will assist in selecting the appropriate sensor, mounting technique, cable and connector.

- **Environment**

- ✓ High temperature
- ✓ Waterproof installations
- ✓ Ionizing radiation
- ✓ EMC interference
- ✓ Acidic and basic environment
- ✓ Small footprint

- **Frequency range**

- ✓ Low frequency measurement
- ✓ High frequency events
- ✓ Measurement in resonance (pulses)



- **Industry**

- ✓ Military specifications
- ✓ Railway grade installation
- ✓ API requirements
- ✓ Automotive: silicon free

- **Sensitivity**

- ✓ High sensitivity for low amplitude events
- ✓ Low sensitivity for higher amplitude range
- ✓ Industrial vs. laboratory grade sensors

- **Safety**

- ✓ Halogen free
- ✓ ATEX requirements (gas and dust)
- ✓ Non-magnetic shielding
- ✓ Low smoke
- ✓ Flame retardant

- **Economic**

- ✓ Cost of material and installation
- ✓ High volume applications
- ✓ Custom series
- ✓ OEM packages



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