



Continuous Monitoring

vMonitor

- **Vibration monitoring 24h/7**
- **Selectable number of channels**
- **Frequency range adjustable**
- **Anti-aliasing filter**
- **Connection of any sensors**
- **Remote inquiry**
- **Data transfer via telephone / internet**
- **Operation via touch screen**
- **Warning Local: Horn, Flashing light**
- **Warning Online: SMS, email**

With **vMonitor**, MAUL-THEET offers a flexible system for permanent recording of vibrations and shock events in buildings.

The measurements can also be made according to DIN4150.

All **vMonitor** systems have integrated anti-aliasing filters and enable multi-channel vibration measurements of small amplitudes in the low frequency range (<3Hz) with very high quality.

The seamless recording of the vibration signals makes it possible to analyze the measurement data retrospectively over a long period of time.



In addition to general vibration monitoring of buildings and structures (DIN4150), the systems are also used to monitor the function of tuned mass dampers.

The introduction of permanent monitoring of the natural frequencies of e.g. bridges allows a higher level of safety.

Monitoring the emission level of production facilities is just as possible as monitoring the immission to sensitive devices to protect them against damage.

To protect art objects, the vibration levels of ceiling floors, showcases or individual objects can be monitored. Warning messages help to recognize the vibration exposure and to give the staff instructions to initiate countermeasures immediately.



Applications

Building monitoring:

DIN4150, earthquakes, demolition work, construction work, natural frequency measurement

Damper monitoring:

Building vibration, damper vibration, relative movement

Bridges:

Vibration amplitudes, natural frequency measurement

Emission monitoring:

Rolling mills, press shops, forging hammers, punching machines

Immission protection:

Microscopes, 3-D printers, exposure devices

Art objects:

Museums, floor vibrations, showcases, individual objects

Technical Specifications

Number of channels	1 to 16, 32, 48, 64 ...
Input	AC, DC, IEPE (Anti-Aliasing filter)
Frequency range	0 – 2 kHz 1—200 Hz at DIN4150
Sensors	velocity (electrodynamic) Acceleration (piezo, MEMS) Laser (triangulation) Cable sensor
Display	Touch Screen 10,4 “
Power supply	110-240 V AC
Weight	Approx: 9 kg
Dimensions	400 mm x 400 mm x 200 mm

Customization:

The vMonitor systems are always customized according to customer requirements.

You can contact us at any time for further information or for the assembly of your **vMonitor** system.