

Update Note

m+p VibControl Release 2.19

m+p VibControl 2.19: Precision, safety, integration - redefined. The latest release unleashes a powerful new REST API for effortless, platform-independent integration and automation. Enjoy pinpoint 1/6 and 1/12 octave acoustic control, a Phase Difference Monitor to protect dual-axis tests, flexible dongle stacking for instant channel expansion, and real-time FFT analysis for rapid interference detection. Upgrade to m+p VibControl 2.19 to achieve increased accuracy, rock-solid safety, and maximum efficiency.

m+p
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Overview of release contents



New application highlights

- 1/6 & 1/12 octave resolution - improving acoustic test precision
- Phase Difference Monitor - increased safety in dual-axis testing



Testing & automation enhancements

- Dongle stacking - more channels, maximum flexibility
- REST API - even more flexible, even easier to integrate



Usability improvements

- FFT in scope mode - detecting disruptions before they become a problem

New application highlights

1/6 & 1/12 octave resolution – improving acoustic test precision

m+p VibControl now extends its acoustic excitation capabilities: in addition to full-octave and 1/3-octave spacing, 1/6 and 1/12-octave spacing options are now available.



This finer resolution enables more precise control and targeted adjustment of the acoustic characteristics of your specimen, exciter, or test environment - resulting in higher accuracy, improved reproducibility, and full compliance with current space testing standards.

Designed for demanding applications such as DFAN and RFAN, m+p VibControl's enhanced resolution ensures precise acoustic field shaping and repeatable results in standardized test environments.

Phase difference monitor – increased safety in dual-axis testing

m+p VibControl 2.19 introduces a Phase Difference Monitor, safeguarding sensitive specimens and complex dual-axis configurations. It continuously tracks the current of each shaker and detects deviations in the movement of the coupling object - using acceleration or displacement sensors where required.



By identifying critical phase and amplitude deviations at an early stage, the system prevents overload or damage. If necessary, tests are automatically and safely shut down. This capability increases test reliability, ensures schedule compliance, and provides greater confidence in demanding aerospace, defense, and automotive applications, such as battery testing.

Optimized for multi-shaker setups such as push-push or push-pull configurations, this feature is designed for experienced users working in high-precision environments.

Testing & automation enhancements

REST API – even more flexible, even easier to integrate

With m+p VibControl 2.19, the previous Remote Command API has been upgraded to a powerful REST API. This platform-independent solution simplifies integration with external software environments - whether for test control via tablets, automating entire test sequences, or connecting to custom tools.



Using standardized HTTP calls and JSON formats, the REST API streamlines integration into modern IT and development workflows. Core functions like starting and stopping tests or adjusting frequency and amplitude remain fully supported - now more accessible and future-proof than ever.

Ideal for multiple test bench setups and automation workflows, this feature serves users across all sectors.



Dongle stacking – more channels, maximum flexibility

With m+p VibControl 2.19, dongle stacking allows you to combine the channel counts of multiple existing licenses. Users with several dongles can now flexibly pool their licenses to run tests requiring significantly more channels—without purchasing additional licenses or undergoing complex conversions.

This feature is ideal for temporary, high-channel-count testing scenarios such as special setups or complex multi-point measurements. The result is maximum license utilization, reduced administrative effort, and full control over your testing resources.

Dongle stacking supports multiple test bench operations across all sectors - especially test houses.

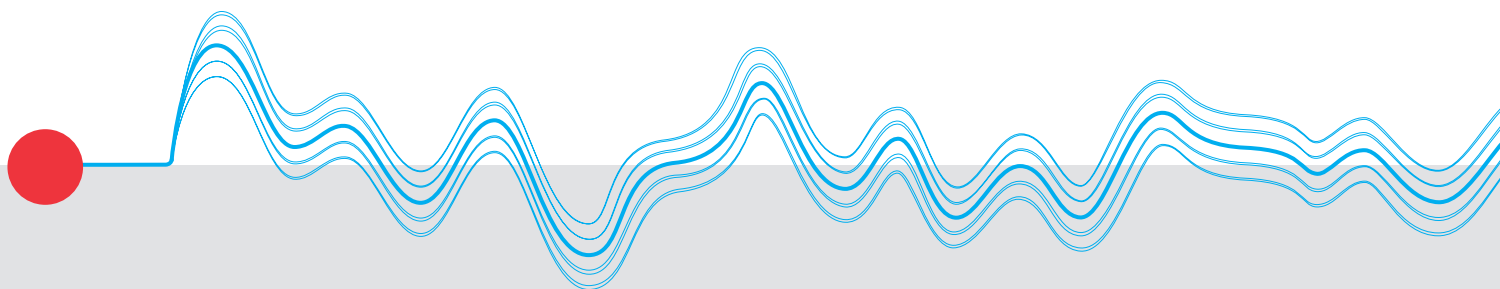
Usability Improvements



FFT in scope mode – detecting disruptions before they become a problem

m+p VibControl's popular Scope Mode displays real-time time-domain signals from connected sensors, even before a test starts—a trusted tool for quick signal checks. With version 2.19, this mode is enhanced by adding a live frequency spectrum (FFT) display.

This feature enables early detection of common interference sources such as mains hum (50 Hz/60 Hz), ground loops, or unwanted vibrations from nearby equipment. Identifying and addressing these disturbances before testing begins saves time, prevents inaccurate measurements, and improves overall test preparation efficiency.



m+p
international
www.mpihome.com

GERMANY
m+p international Mess- und
Rechnertechnik GmbH
Phone: +49 511 856 03-0
sales.de@mpihome.com

USA
m+p international, inc.
Phone: +1 401 487 2977
sales.us@mpihome.com

UNITED KINGDOM
m+p international (UK) Ltd.
Phone: +44 1420 521222
sales.uk@mpihome.com

FRANCE
m+p international SARL
Phone: +33 130 157874
sales.fr@mpihome.com

CHINA
m+p international China Co., Ltd.
Phone: +86 512 6510 0765
sales.cn@mpihome.com