

## **VibPilot Vibration Controller & Dynamic Signal Analyzer**



The all new front-end system exclusively from m+p international:

An instrument that handles general data acquisition and signal processing tasks as reliably as sine, random, shock and mixed mode testing, modal analysis, rotating machinery testing, acoustics etc.

A small mobile unit, yet powerful and highly precise instrument that, with our proven software, covers the complete measurement process from acquisition to reporting and that is as much at home in the field as it is in the lab..

VibPilot is m+p international's new compact 4/8-channel hardware platform for all vibration testing and dynamic signal analysis. Using the latest DSP and analog technology VibPilot provides market leading dynamic range and outstanding real-time performance via high-speed USB interfacing.

Rugged and dust-proof, VibPilot can be operated indoors and outdoors under harsh conditions. The fan-less, noise-free operation enables acoustic measurements requiring a low noise environment. It is possible to synchronize two or more VibPilot devices via a master clock without influencing their performance, thus providing maximum flexibility to the NVH engineer: operated separately or, if higher channel

counts are required, together.

VibPilot is a complete multi-purpose solution using our proven VibControl and SO Analyzer software for vibration testing and dynamic signal analysis applications.

### **Vibration Testing**

The VibPilot instrument covers the full functionality of our [VibControl](#) shaker control software and all test modes that are used in vibration testing nowadays.

- All tests fully compliant with ISO, DIN, MIL-STD 810 and all the other vibration testing standards
- Eight digital inputs/outputs to process and monitor external control signals
- Two 300 MHz floating-point DSP's for high performance and short control cycles
- Time domain recording in parallel with control to the throughput disk

### **Dynamic Signal Analysis**

With the [SO Analyzer](#) software, VibPilot provides all the hardware features in one box for the widest range of applications in dynamic signal analysis.

- General data acquisition and time history recording
- Modal analysis
- Rotating machinery testing
- Impact testing
- Acoustic analysis (fan-less operation)
- Environmental testing
- Vehicle pass-by-noise testing

### **Benefit from the Affordable Excellence of the VibPilot:**

- 4 or 8 analog input channels
- 120 dB spurious-free dynamic range
- 102.4 kHz simultaneous sampling
- ICP® sensor conditioning
- TEDS support
- 2 source output channels
- Safety shutdown for source channels
- 2 tacho inputs
- 8 digital inputs and 8 digital outputs
- DSP powered real-time processing
- Multiple VibPilot synchronisation
- USB 2.0 host interface
- Compact, dust-proof, rugged housing
- Fan-less, noise-free operation
- AC/DC supply, only 20 W power consumption

With the VibPilot system, m+p international sets a new standard for performance in professional vibration testing and dynamic signal analysis.

Contact:  
m+p international (UK) Ltd  
Mead House

Bentley, Hampshire  
GU10 5HY  
tel: 01420 521222  
[sales.uk@mpihome.com](mailto:sales.uk@mpihome.com)

[www.mpihome.com](http://www.mpihome.com)