



THE INNOVATOR IN
**SOUND & VIBRATION
TECHNOLOGY**

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VR10500

Vibration Controller



Sine | Random | Shock | Sine Resonance Track and Dwell | Shock Response Spectrum | Sine-On-Sine | Recorder | Sine-on-Random | Random-On-Random | Transient Capture | Field Data Replication (FDR) | Instant Degrees Of Freedom® (iDOF) | Sine Tracking, Analysis and Generation™ (STAC®) | Kurtosion® | Fatigue Damage Spectrum (FDS) |

VALUABLE BENEFITS

Mix-n-Match

Each module can be used independently on separate shakers or together in a single stack for jobs requiring a higher channel count. This economic solution creates substantial cost savings for our customers.

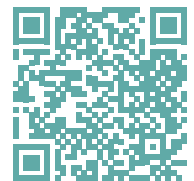
Warranty

Three-year hardware warranty can be extended to a lifetime warranty with continual renewal (no lapse) of a support agreement.



GENERAL SPECIFICATIONS

- Up to 512 channels (mix-n-match)
- 104,000 lines of resolution
- Digital remote Inputs/Outputs
- Emergency stop
- Total harmonic distortion < -100dB THD+N
- Control sine, random, or shock vibration to 50,000Hz



VR10500

INPUT CHANNELS

- Single-ended with 100kΩ impedance
- Custom units can be defined for other sensor types

Protected

200V tolerant inputs protect your device from transients

Resolution

24-bit

Dynamic Range

> 110dB dynamic range
> 130dB with tracking filters

Filtering

Analog multiple pole anti-aliasing filter, and digital anti-aliasing filter with >105dB attenuation

Noise Floor

< 50nV/√Hz suprious free

Sample Rate

256kHz simultaneous sample rate

Voltage Range

±1V, ±10V: 100kΩ input impedance
±0.5V, ±5V: 10MΩ input impedance

Set-up Parameters

Accelerometer constant current supply (4mA IEPE)
TEDS transducer interface

OUTPUT CHANNELS

Channels

Four analog
Two digital

Filtering

Analog multiple pole filter plus a digital filter
Analog reconstruction filters

Resolution

32-bit

Voltage Range

±10V

Frequency Range

50,000Hz
216,000 samples per second

Other

Drive up to 4 shakers
4 independent or phase controlled outputs to drive multiple shakers
Safety relay prevents shaker, amplifier, and product damage from transient
Optionally drive a differential input device

DARE TO COMPARE - FOR 30 DAYS.

Skeptical that we can't meet your standards? Put us to the test. We'll let you try our products for 30 days. Once you use them, we think you'll be hooked.