



RELIABILITY
MEETS INNOVATION

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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™ (STAG®) | 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 VR upgrades & support agreement.



GENERAL SPECIFICATIONS

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



VR10500

INPUT CHANNELS

Channel Specifications

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

Noise Floor

< 50nV/√Hz

Sample Rate

256kHz simultaneous sample rate

Filtering

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

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

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.

OUTPUT CHANNELS

Channel Type

Four analog, two digital

Filtering

Analog multiple pole reconstruction filter

Resolution

32-bit

Voltage Range

±10V

Frequency Range

50,000Hz; 216,000 samples per second

Other

Safety relay prevents shaker, amplifier, and product damage from transient

Optionally drive a differential input or COLA device

4 independent or phase controlled outputs to drive multiple shakers