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 support agreement.

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.

GENERAL SPECIFICATIONS

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

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