Vib Pro HD



FEATURES

- Provides accurate and versatile sweep generation across all surface terrains ensuring delivery of the desired energy
- Increased computing power improves control resolution and force accuracy
- Optimized low and high frequency control for INOVA's vibroseis vehicles
- INOVA's patented Low Frequency Limit (LFL)Control[™] enables high force, low frequency linear sweeps to be performed using short tapers within physical constraints of the vibrator
- INOVA's patented Harmonic Distortion Reduction (HDR) Control[™] attenuates harmonic energy in realtime generating more fundamental force with lower distortion on each sweep
- Integrated wired and wireless Ethernet communication
- Integrated VSS and PSS data management and storage
- Dynamic TDMA, collision-free radio communications
- Analog and Digital radio support
- Compatible with most acquisition systems and vibroseis vehicles on the market
- Units can be easily programmed as an encoder or decoder

HDR CONTROL[™] ADVANTAGE

- Patented Harmonic Distortion Reduction (HDR)
 Control provides better vibrator performance generating more fundamental force over a braodband frequency spectrum in any environment using nonlinear compensating control algorithms
- HDR Control reduces harmonic distortions and results in improved signal-to-noise ratios



- When utilized with the DR Valve, HDR Control is further optimized by dampening the earth/baseplate resonance and improves the linearity and bandwidth of the vibrator's servovalve
- Low ground force mode for environmentally-sensitive areas

TECHNICAL SPECIFICATIONS

9 Vdc - 36 Vdc Voltage Input: Timing Synchronization: Local GPS or analog radio message Start Time Accuracy: ±20 µs GPS: External only via 9-pin connector Number of Sweeps: 32 Sweep Resolution: 24 bit Control System Sample Rate: 0.25 msec Vibrator Signature Recording: Built-in with USB, ethernet or wireless data access High Productivity Vibroseis: USB Flash External Storage: 100 Mbit Built-in Ethernet Speed: 25 mV/g ±2% Accelerometer* Sensitivity:

±380 g

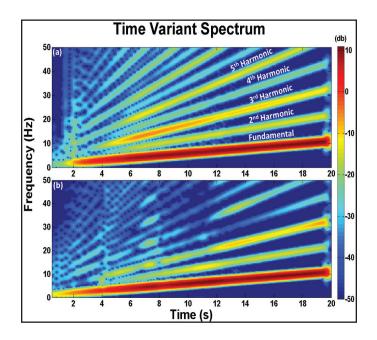
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Accelerometer Range:



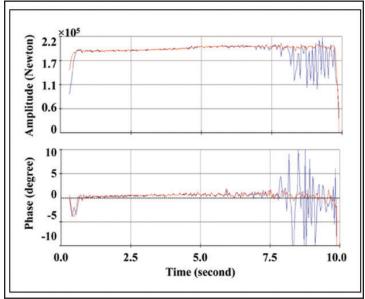
PHYSICAL SPECIFICATIONS

Height (without shock mounts): Width (without shock mounts): Length (without shock mounts): Weight (without shock mounts): Accessories: 406 mm (16 in) 305 mm (12 in) 152 mm (6 in) 10 kg (22 lb) Radios, antennas, cables to perform fleet operations and Accelerometers are sold separately



(Top) HDR Control off, (Bottom) HDR Control on.

A linear sweep from 1 to 11 Hz in 20 seconds was used to run the vibrator.



Linear sweep from 5 Hz to 240 Hz in 10 seconds.

The blue curve is produced using a standard controller while thered curve is produced using Vib Pro HD with high frequency control.

*Model M5 and M6 Accelerometers.