MicroVib™ II Aircraft Analyzer

MicroVib II Means MAXIMUM Capability

MAX Screen: 4.8" LCD

MAX Battery: NiMh with Fast Charge

MAX Mobility: About 2.3 lbs. light, less than 2" thin

FEATURES AND BENEFITS

- Fast, Accurate Dynamic Propeller Balancing - Single or Multi Engine - Turbine or Recip
- Helicopter Rotor Track and Balance
- High Temp Turbine Engine Vibration Analysis
- Turbofan Fan Balancing
- Shaft Balancing
- Gearbox and Bearing Vibration Analysis
- Vibration Absorber Tuning
- Airframe Vibration Troubleshooting
- Reciprocating Engine Vibration Analysis
- Post Balancing Move-line Checks
- Cabin Vibration Survey
- Tachometer Checks
- True Single Person Balancing and Analysis
- Helicopter Strobe Tracking
- Helicopter Optical Blade Tracking
- Compatible with DSS Multi Channel Signal Mux Units
- Built-in Balance Solution Generator
- Built-in Balance Weight Computer
- Balance History Record Keeping
- Compatible with Existing Balance Charts
- Fast and Easy Setup with Aircraft Specific Group Files
- Saves Data to Nonvolatile MicroDisk™ Flash Memory
- Saved Data Can Be Uploaded to MicroBase Pro™ for Further Analysis and Permanent Record Keeping
- Automatically Reminds Operator that Calibration is Due
- Self Contained, High Capacity Rechargeable Battery
- Uses Industry Standard Vibration Sensors
- One Unit Performs Many Tasks
- Small Size for Handheld Use
- FAA Approved for MORE STC

SPECIFICATIONS

Current Firmware Version
MicroVib II Firmware 1.34/1.35 (based on MV2 S/N)

Size and Weight
8.7 in. long, 4.25 in. wide, 1.7 in. Deep. Weighs 36.8 oz. (1044 gm)

Temperature
15 to 130F (-10 to 50C)

LCD Display
320x240 pixels. 3.84 inches wide, 2.88 inches high (97.5 x 73). .012 dot pitch (.3mm). LED backlight.

Analysis Modes
Prop/Rotor Balance, Blade Track, Spectrum, Waveform, True RMS, True Peak Hold, Spectrum Overall, Tach Ratio.

Spectrum Cursor Modes
Cursor OFF, Cursor ON, Peak Locate, Harmonic, Move Harmonic.

Spectrum Ranges
15,000 CPM (250Hz), 60,000 CPM (1KHz), 300,000 CPM (5KHz), 1,200,000 CPM (20 Khz).

Spectrum Resolution
User selectable - 50, 100, 200, 400 and 800 lines.

Spectrum Scale
Amplitude: Linear or Logarithmic. Freq: CPM or Hertz

Waveform Cursor Modes
Cursor OFF, Cursor ON, Delta Time / Amplitude

Waveform Ranges
1024Hz, 5120Hz, 25.6KHz and 51.2KHz sample rates. 128, 256, 512, 1024 and 2048 points.

Spectrum and Waveform Triggering
Tach, Auto and user defined Level Triggered data collection.

Data Display Units
Acceleration, Velocity, or Displacement - English or Metric. RMS, Peak, Average, Peak-to-Peak and dB unit types.

Signal Input
Accelerometer, Velocity sensor, Displacement probe or Non-Vibration sensor. Voltage or Current (ICP) mode sensors.

Nonvolatile Storage
More than 40 history files (each file can contain up to 10 balance tasks and 64 runs) or up to 200 400 line spectrum data files.

Data Communication
Bi-directional data transfer with MicroBase™ software application via USB port.

Power Supply
Internal NiMh battery provides 16-24 hours continuous use. Recharges in 4 hours.

Dynamic Solutions Systems, Inc.

Aircraft Vibration Analysis and Control Systems

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