



Vibration Analysis Module—vib460

MAINTelligence — the leading edge software for vibration analysis, is made even better by the addition of a direct interface to the **vib460**, an advanced tool for vibration data collection.

The vib460 data collector is a high performance dual channel hand held data collector and signal analyzer.

The vib460 can be used for condition monitoring of equipment found in many process industries such as power generation, pulp / paper, and petrochemical.

The vib460 utilizes the latest advances in analog and digital electronics, including digital signal processing (DSP) and the industry's highest resolution Sigma-Delta A/D converter to provide both speed and accuracy in the data collection process.

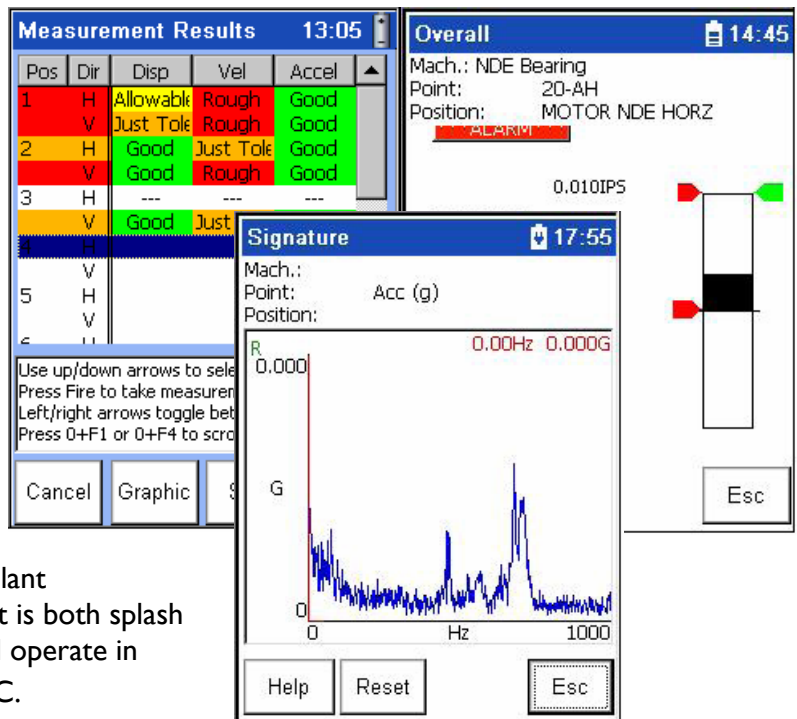


The vib460 collects field data, including vibration information and process variables, over a range of 10CPM (0.16 Hz) to 2,400 kCPM (40 KHz). Bearing assessments are carried out using ESP™ measurements, a proven amplitude demodulation technique.

New XScale processor technology gives high data collection performance. The bright, full-color screen and intuitive user interface allows easy navigation of test points.

Communication between MAINTelligence and the vib460 can use serial, USB and transfer by CompactFlash card.

The vib460 was built tough to withstand severe plant environments. Its sealing is rated IP 65 meaning it is both splash and dust proof. It is drop tested to 6 feet and will operate in ambient temperatures from -20 to +70 degrees-C.



vib460 Specifications

Input Signal Types

ICP™ Accelerometers , Velocity Transducers , Displacement Probes , Photo-Optical Pickups , Infrared Temperature Sensors , DC Inputs , Triaxial Transducers, Keypad

Two Channel Input

Channel 1 - ICP/AC/DC, Optional Triaxial
Channel 2 - ICP/AC/DC

Signal

Range +/- 40 Volts Max.

RMS / Peak / Peak-Peak / dB

Measurement Parameters

Acceleration, Velocity, Displacement, Amplitude Demodulation (Enveloping), Phase, Voltage, Temperature, User Defined

Measurement Types

Overall, Time Waveform, Spectrum, Phase, Order Normalized, Orbit

Resolution

FFT—100 to 12,800 lines, 1 channel

Time—256—32,768 samples, 1 channel

Performance

Dynamic Range > 90 db, Real Time Rate - 40 kHz,

Low Range (Accelerometer) - 10 CPM,

Filters

High Pass: 2, 10, 70 Hz

Demodulated: 0.6 - 1.25 kHz, 1.25 - 2.5 kHz, 2.5 - 5.0 kHz, 5.0 - 10.0 kHz, 10.0 - 20.0 kHz

Alarms

Overall, Spectral Band

Power

Rechargeable Lithium-Ion

Communications

USB, RS 232, IrDA, via memory card

Storage

64MB RAM, 64MB internal flash, 8MB OS flash

Display

320 X 240 pixels, Backlit, Full Color

Loadable Modules

Balancing Module—1 or 2 Plane Balancing

Analyzer Module—Stand Alone Spectrum Analyzer

Recorder Module— Long Time Wave Collection

Conformance Module—API, ISO 10816 Checks

Bump Test Module

Weight

1.5 lb (700 grams)

Size

8 in X 5 in X 2 in (200mm X 130mm X 50mm)



Design Maintenance Systems Inc.
38 Fell Avenue, Suite 201
North Vancouver, BC, Canada
(604) 984 3674 <http://www.desmaint.com>