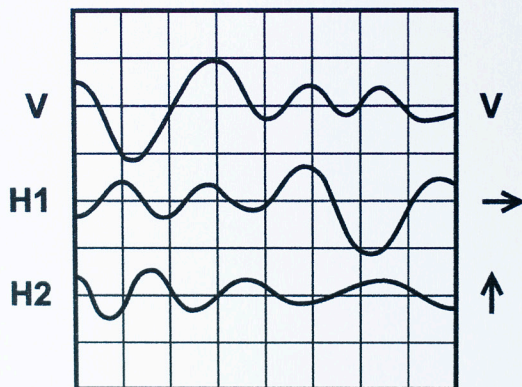


VIBRATION ANALYSER



VA-2

VA-2 Vibration Sensor

OVERVIEW

Comprehensive Vibration Characterization Across X, Y, and Z. The multiplexed output allows simultaneous display of all three axes on an oscilloscope. In addition to this feature, each axis may be separately read as well. The first feature is very useful for identifying vibration modes - frequency, direction and amplitude (can all be inferred from the display).

FEATURES

The VA-2 is a remote measurement head allowing for easy measurement of acceleration, velocity or displacement in three orthogonal directions:

- Three Axis Accelerometer Head
- Three Display Modes
 - Acceleration
 - Velocity
 - Displacement
- Adjustable Gain

MODES OF DISPLAY

- Output can be displayed using:
 - Oscilloscope
 - FFT Analyzer
 - Computer with A/D Card
- Multiplexed output allows all three axes to be displayed simultaneously

APPLICATIONS

- Site Survey Analysis
- Building Vibration Monitoring
- Ground Vibration Tests
- Product Qualification
- Quality Control
- Vibration Analysis

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TECHNICAL SPECIFICATIONS

FREQUENCY RANGE

- **Vibration:** 2 - 1,000 Hz

WEIGHT

- 2.2 Lbs (1 Kg)

SENSITIVITY PER VOLT

- **Acceleration:** $10^{-3} \sim 10^{-1}$ g's
- **Velocity:** $2.54 \times 10^{-6} \sim 2.54 \times 10^{-4}$ in/sec
- **Displacement:** $2.54 \times 10^{-8} \sim 2.54 \times 10^{-6}$ in

DIMENSIONS

- **Sensor Head:** 2.7 in (7cm) cube
- **Controller:** 8.5 x 9 x 3 inches
(21.5 x 23 x 7.5 cm)

LIMITING SENSITIVITY

- **Acceleration:** $1 \times 10^{-6} \sim 0.5$ g's
- **Velocity:** $2 \times 10^{-7} \sim 1 \times 10^{-3}$ in/sec
- **Displacement:** 2 Hz - 20 Hz: 0.1 ~ 0.01
Above 20 Hz: $2 \times 10^{-11} \sim 1 \times 10^{-5}$ in

ACCURACY

- +- 5% All Ranges