VIBRATION METER
Model: VB-8206SD
ISO-9001, CE, IEC1010

LUTRON ELECTRONIC
The Art of Measurement
FEATURES

- Applicable for industrial vibration monitoring.
- All industrial machinery vibrates. The level of vibration is a useful guide to machine condition. Poor balance, misalignment & looseness of the structure will cause the vibration level increase, it is a sure sign that the maintenance is needed.
- Frequency range: 10 Hz - 1 kHz, sensitivity relative meet ISO 2954.
- Professional vibration meter supply with vibration sensor & magnetic base, full set.
- * MLC & Imperial display unit
- * Acceleration, Velocity, Displacement, measurement
- * RMS, Peak value, Max. Hold measurement
- * Max. Hold Reset button.
- * Wide frequency range
- * Data Hold button to freeze the desired reading.
- * Memory function to record maximum and minimum reading with recall
- * Separate vibration probe with magnetic base, easy operation.
- * Real time b/o memory card data logger, it built-in flash and- and real time data recorder, sampling time set from 1 second to 3600 seconds.
- * Manual data logger is available (set the sampling time to 0), during execute the manual data logger function, it can set the different position (location) No. (position 1 to position 99).
- * Innovation and easy operation, computer is not need to setup extra software, after execute data logger, just take away the SD card from the meter and plug in the SD card into the computer, it can down load the all the measured value with the time information (year/month/day/ hour/minute/second) to the Excel directly, then user can make the further data or graphic analysis by themselves.

GENERAL SPECIFICATIONS

- Circuit: Uses 8051 microcontroller chip of microprocessor LSI Circuit.
- Display: LCD size: 52 mm x 38 mm. LCD with green backlight (ON/OFF).
- Measurement, Acceleration, displacement.
- Function:
  - Acceleration: velocity, RMS, Peak, Max. Hold, Displacement :... ( p-p, Max Hold p-p )
  - Velocity: RMS, Peak, Max. Hold
  - Displacement: To measure and update the max. peak value.
- Unit:
  - Acceleration: m/s^2, cm/s^2, in/s^2
  - Velocity: m/s, cm/s, in/s
  - Displacement: mm
- Frequency range:
  - 0 to 1 kHz
  - * Sensitivity relative during the frequency range meet ISO 2954
  - Refer to table 1, page
- Circuit: Exclusive microcomputer circuit.
- Peak Measurement:
  - Acceleration: velocity
  - Velocity
  - Displacement:
  - To measure and update the peak value.
- Max. Hold Measurement:
  - Acceleration: velocity
  - Velocity
  - Displacement:
  - To measure and update the max. peak to peak ( p-p ) value.
- Zero Button:
  - To measure and update the max. peak to peak ( p-p ) value.
- Max. Hold Reset Button:
  - To measure and update the max. peak to peak ( p-p ) value.
- SD card logger:
  - Auto: 1 second to 9999 seconds
  - Manual:
  - Sampling time can set to 1 second, but memory data may loss.
- Setting range:
  - Auto: 1 second to 9999 seconds
  - Manual: set the sampling time to 0 second.
- Memory card:
  - SD memory cards, 1 to 32GB
- Advanced setting:
  - * Set delay time ( 1 second to 9999 seconds)
  - * Decimal point of SD card setting
  - * Auto power OFF management
  - * Set deep Sound OFF
  - * Data logger management
- Data logger:
  - Water-proof data logger button
  - Data logger button setup the sampling time.
- Memory Recall:
  - Maximum & Minimum value
- Sampling Time of Display:
  - Approx. 1 second.
- Data Output:
  - RS 232/USB PC computer interface.
  - * Connect the optional RS232 cable USB-01 will get the USB plug.
  - * Connect the optional USB cable USB-02 will get the USB Plug.
- Operating Temperature:
  - 0 to 50 °C
- Operating Humidity:
  - Less than 85% R.H.
- Power Supply:
  - * Alkaline or heavy duty DC 1.5 V battery
  - * USB, AC-DC power adapter
  - * DC-AC power adapter is optional.

ELECTRIC SPECIFICATIONS (23±3 °C)

- Acceleration (RMS, Peak, Max Hold):
  - RMS:
    - 0.001 m/s^2
    - 0.1 m/s^2
    - 1 m/s^2
  - Peak:
    - ± 1.5 ± 3rd reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
  - Calibration:
    - 0.02 m/s^2 ( 160 Hz)
    - Point
    - Range
  - RMS:
    - ± 0.5 m/s^2
  - Peak:
    - ± 1.5 ± 3rd reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
  - Calibration:
    - 0.02 m/s^2 ( 160 Hz)
    - Point
    - Range
  - Max. Hold:
    - ± 1.5 ± 3rd reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
  - Calibration:
    - 0.02 m/s^2 ( 160 Hz)
    - Point
    - Range

- Velocity (RMS, Peak, Max Hold):
  - RMS:
    - Unit: m/s
    - 0.1 m/s
    - 1 m/s
  - Peak:
    - ± 1.5 ± 3rd reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
  - Calibration:
    - 0.02 m/s ( 160 Hz)
    - Point
    - Range
  - Max. Hold:
    - ± 1.5 ± 3rd reading @ 160 Hz, 80 Hz, 23 ± 5 ℃
  - Calibration:
    - 0.02 m/s ( 160 Hz)
    - Point
    - Range

- Displacement ( p-p, Max Hold p-p )
  - RMS:
    - To measure the true RMS value.
  - Peak:
    - To measure and update the peak value.
  - Max. Hold:
    - To measure and update the max. peak value.

- Weight:
  - 1.13 LB

- Dimensions:
  - L x W x H: 37 x 24 x 10 cm

- Accessories:
  - Instruction manual
  - SD Card (2 G)
  - USB cable, USB-01
  - RS232 cable, UPCB-02
  - Data Acquisition software SW: U801-WIN.