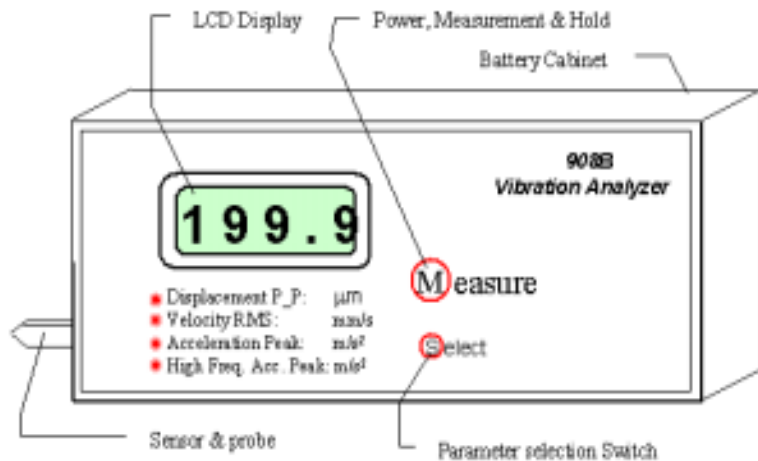


Optional: Outside accelerometer with magnetic mount and probe



Standard Configuration: inside accelerometer with probe

USER'S MANUAL

For the

908 series

Vibration Analyzer

True RMS measurement

4 parameters Metric version

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1. Preparation

- 1). Check the voltage of the battery:

Press <Measure> key, observe the display on the screen. If there is an arrow on the top left corner, you need to replace the battery with a new one.

- 2). Set-up probe

908 standard has two probes while outside sensor has 1 probe and 1 magnetic mount. When changing, take hold of the screw cover to avoid rotation and damage of the sensor.

2. Measurement

- 1). Select the measure parameters:

SENDIG-908 has 4 vibration parameters. They are:

- a) Displacement (unit: $\mu\text{m} = 1/1000 \text{ mm}$): Equivalent peak-peak value
- b) Velocity (unit: mm/s): True RMS Value;
- c) Acceleration (unit: m/s^2): Equivalent peak
- d) High Frequency Acceleration (unit: m/s^2): Equivalent peak

- 2). Functions of the <Measure> key:

- a). Key press: Power on and begin measuring;
- b). Key release: Hold the measured value for twenty seconds and then power off automatically.

- 3). Stick the probe to the measured object (the pressure should be about 0.5—1 kg.)

3. Notes

- 1). Avoid intense impact, high temperature and immersed in water.
- 2). Keep the sensor plug clean and dry, and use it carefully.
- 3). Install the battery:
 - a) Open the small back cover of battery cabinet (2 screws at the end far away from the sensor at backside, see figure);
 - b) Place a battery (6F22, 9V) correctly according to the polarity;
 - c) Close the back cover and screw the screws tightly;
 - d) If it has been put aside long-term, please take out the battery

- in case of the outflow of the battery liquid;
- 4) If the sensor has been used for over one year, please re-calibrate the vibrometer to ensure the precision.

4. Specifications

- 1). Measurement condition:

Temperature: $5-50^{\circ}\text{C}$, Humidity $<85\%$, Non-causticity environment, Without strong electric-magnetic field & strong impact. It can be used in industry location by controlling the EMC environment throughout installation and/or usage.

- 2). Amplitude Ranges:

Displacement 1–1999 μm peak-peak (*)

Velocity 0.1–199.9 mm/s true RMS

Acceleration and High Frequency Acceleration:

0.1–199.9 m/s^2 peak (*)

***Note:** peak-peak and peak are equivalent value means:
peak-peak = $2.828 * \text{RMS}$ while peak = $1.414 * \text{RMS}$

- 3). Measurement accuracy: $\pm 5\%$ of display ± 2 digits

Noise Level (without input): ACC $<0.25 \text{ m/s}^2$, VEL $<0.5 \text{ mm/s}$, Disp $<3 \mu\text{m}$

Frequency response accuracy: $\pm 5\%$; $\pm 10\%$ for ACC 4.5kHz-10kHz

Non-linearity: $\pm 5\%$

- 4). Sensor type: Piezoelectric Accelerometer

- 5). Frequency response: 10–1000Hz (908B)

10–5000Hz (908)

High Frequency Acceleration: 1000-5000Hz $\pm 10\%$

- 6). Battery: 9V 6F22, 25 hours of continuous operation.

- 7). Configuration:

Standard: Inside accelerometer with 2 handheld probes

Optional: Outside accelerometer with magnetic mount and probe

- 8). Dimensions: 13×6×2.3 cm; Weight: 200 g.

5. Warranty

3 years but not include those caused by mishandling.