

USER'S MANUAL

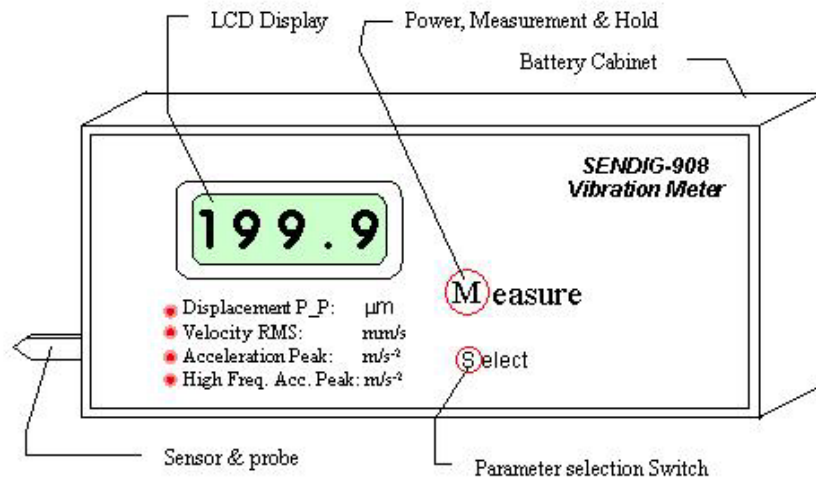
For the

SENDIG-908

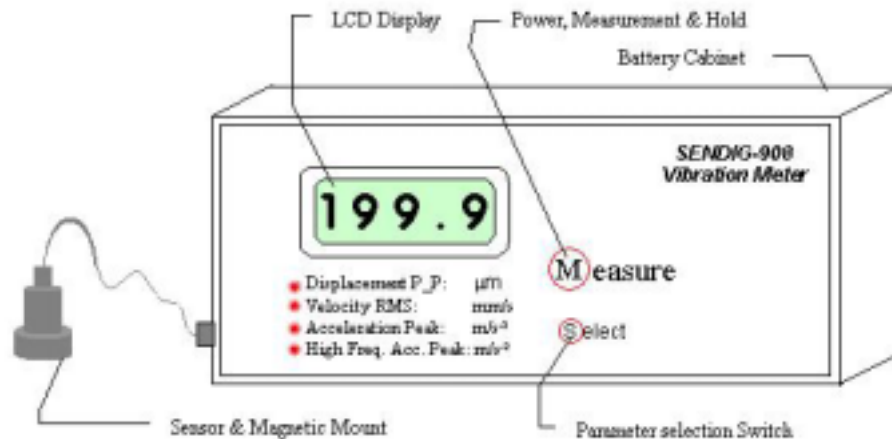
A Portable Vibration Analyzer

True RMS measurement

4 parameters Metric version



Standard Configuration: inside accelerometer with probe



Optional: Outside accelerometer with magnetic mount and probe

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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

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 (Inside accelerometer)

10–5000Hz (Outside accelerometer, depending on model)

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.