

METRAVI 908

METRAVI 908 Vibration Meter Instruction Manual

Model: 908

1. INTRODUCTION

The METRAVI 908 Vibration Meter is a precision instrument designed for measuring vibration velocity, acceleration, and displacement. It also includes a temperature measurement function. This device is suitable for monitoring various vibrating mechanical facilities, particularly for rotating and reciprocating machinery. Its high-sensitive vibration sensor ensures accurate and reliable measurements.



The Metravi 908 Vibration Meter, showing the main display unit with its LCD screen and control buttons, alongside the detachable standard vibration probe.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the METRAVI 908 Vibration Meter. Failure to follow these instructions may result in injury or damage to the instrument.

- Do not operate the meter in explosive atmospheres or in the presence of flammable gases or dust.
- Ensure the battery compartment is securely closed before use.
- Avoid dropping the instrument or subjecting it to severe impact.
- Do not attempt to disassemble or modify the meter. Refer all servicing to qualified personnel.
- Keep the meter away from strong electromagnetic fields.
- Remove batteries if the meter is not used for an extended period to prevent leakage.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

- METRAVI 908 Vibration Meter Main Unit
- Standard Vibration Probe
- Magnetic Base
- Long Probe Tip
- Short Probe Tip
- 9V Battery
- USB Cable (for data transfer, if applicable)
- Hard Carrying Case
- Instruction Manual



An overhead view of all items included with the Metravi 908 Vibration Meter: the main unit, probe, various probe tips, magnetic base, battery, and instruction manual, all arranged on a flat surface.

4. PRODUCT FEATURES

- Measures velocity, acceleration, and displacement.
- Integrated temperature measurement function.
- Clear LCD display shows measurement results and current operating conditions.
- High-sensitive vibration sensor for accurate data acquisition.
- Equipped with two interchangeable probes (short and long) for diverse measurement needs.
- Includes a magnetic probe base for stable sensor placement in challenging environments.
- Maximum value hold function.
- Selectable vibration characteristic (Hi/Lo frequency).
- Temperature unit selection (°C/°F).
- Automatic power-off feature to conserve battery life.
- Low battery indication.

5. SETUP

5.1 Battery Installation

1. Open the battery compartment cover located on the back of the meter.
2. Insert the included 9V battery, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely.

5.2 Probe Attachment

The METRAVI 908 comes with a detachable probe and various tips to suit different measurement requirements.

1. Connect the probe cable to the designated port on the top of the main meter unit.
2. Select the appropriate probe tip (short, long, or magnetic base) for your measurement task.
3. Screw the chosen probe tip onto the end of the vibration probe until it is firmly attached.



A view of the Metravi 908 Vibration Meter with its main unit connected to the vibration probe by a cable, illustrating how the components are assembled for use.

908 Probe Tips



SMALL
PROBE TIP



MAGNETIC
PROBE TIP



LONG PROBE TIP

A. With Detector probe S: It provides good response and reproducibility over a wide range. As the following figure.



B. With Detector head L: Suitable for narrow object or special objects to obtain quick response as the following at figure.



C. With Magnetic probe: Suitable for measurement in cases where flat Ferric object to the stable measurement. as the following figure.



D. Without probe tip: In this condition, best high-range response is achieved (10Hz to 15kHz), but planar contact with the measurement object is required as the following picture.



A diagram detailing the various probe tips available for the Metravi 908 Vibration Meter, including magnetic, long, and short tips, and their recommended applications for different measurement scenarios.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press the **ON/MEAS** button to power on the meter. The LCD will illuminate and display the current readings. To power off, press and hold the **ON/MEAS** button for a few seconds until the display turns off. The meter also features an auto-power-off function after a period of inactivity.

6.2 Measurement Modes (A/V/D)

The METRAVI 908 can measure Acceleration (A), Velocity (V), and Displacement (D).

- Press the **A/V/D** button to cycle through the measurement modes.
- The selected mode will be indicated on the LCD display (e.g., m/s^2 for acceleration, mm/s for velocity, mm

for displacement).

6.3 Temperature Unit Selection (°C/°F)

Press the **°C/°F** button to switch between Celsius and Fahrenheit for temperature readings.

6.4 High/Low Frequency Selection (HI/LO)

Press the **HI/LO** button to select the desired frequency range for vibration measurement. This allows for selective vibration characteristic analysis.

6.5 Maximum Value Hold (MAX HOLD)

Press the **MAX HOLD** button to capture and display the maximum measurement value recorded during a session. Press it again to exit this mode.

6.6 Taking Measurements

1. Ensure the meter is powered on and the desired measurement mode (A, V, or D) is selected.
2. Carefully place the probe tip firmly against the surface of the object you wish to measure. For stable readings, use the magnetic base if applicable.
3. Observe the readings on the LCD display. The meter will continuously update the vibration and temperature values.
4. For optimal accuracy, ensure good contact between the probe and the measurement surface.



The Metravi 908 Vibration Meter in operation, with its probe attached to a vehicle engine to measure vibrations. The meter's display shows current readings.



A detailed view of the Metravi 908 Vibration Meter's LCD display, showing active measurement readings for vibration and temperature, with the probe connected to an object.

7. MAINTENANCE

7.1 Cleaning

Wipe the meter's casing with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the probe tip is clean and free of debris for accurate readings.

7.2 Storage

When not in use, store the METRAVI 908 Vibration Meter in its hard carrying case in a cool, dry place, away from direct sunlight and extreme temperatures. Remove the battery if storing for an extended period to prevent battery leakage.



The Metravi 908 Vibration Meter, its probe, and various accessories neatly organized within a protective hard carrying case, indicating portability and safe storage.

7.3 Battery Replacement

When the low battery indicator appears on the display, replace the 9V battery as described in the 'Battery Installation' section (5.1).

8. TROUBLESHOOTING

- **Meter does not power on:**

Check if the battery is installed correctly and has sufficient charge. Replace the battery if necessary.

- **Inaccurate readings:**

Ensure the probe tip is clean and making firm, stable contact with the measurement surface. Verify that the correct measurement mode (A/V/D) and frequency range (HI/LO) are selected for your application. Avoid strong electromagnetic interference.

- **Display is blank or flickering:**

This may indicate a low battery. Replace the 9V battery. If the issue persists, contact customer support.

- **Probe not detecting vibration:**
Check the connection between the probe and the main unit. Ensure the probe tip is securely attached.







9. SPECIFICATIONS

Parameter	Value
Model Number	908
Measurement Functions	Acceleration, Velocity, Displacement, Temperature
Acceleration Range	m/s ² peak
Velocity Range	mm/s RMS
Displacement Range	mm p-p
Power Source	1 x 9V Battery (included)
Item Weight	200 g
Product Dimensions (L x W x H)	15 x 7 x 3 cm
Material	Ceramic (sensor material)
Manufacturer	MetraVI Instruments
Country of Origin	China

10. WARRANTY AND SUPPORT

The METRAVI 908 Vibration Meter is covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your product for specific terms and conditions. For technical support, service, or warranty claims, please contact your authorized METRAVI dealer or visit the official METRAVI website.

For more information about METRAVI products, visit: [METRAVI Store on Amazon](#)

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	<p>Metravi DT-725 Digital T-RMS AC/DC Clamp Meter - Technical Specifications</p> <p>Detailed technical specifications and features of the Metravi DT-725 Digital T-RMS AC/DC Clamp Meter, including measurement ranges, accuracy, and general specifications for electrical testing.</p>
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