

## Milwaukee 2237-20

# Milwaukee 2237-20 Clamp Meter User Manual

Model: 2237-20

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the Milwaukee 2237-20 Clamp Meter. This heavy-duty True-RMS electrical current tester is designed for professional residential, commercial, and industrial electrical applications. Please read this manual thoroughly before operating the device.

## 2. SAFETY INFORMATION

### General Safety Precautions

- Always adhere to local and national safety codes.
- Do not use the meter if it appears damaged or is not operating correctly.
- Ensure the meter is rated for the voltage and current levels being measured. The 2237-20 is rated CAT III 600V.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Avoid working alone when performing electrical measurements.
- Keep fingers behind the finger guards on the test leads during use.
- Do not attempt to measure current on uninsulated conductors.
- Replace batteries promptly when the low battery indicator appears.

### Category Rating (CAT III 600V)

The CAT III 600V rating indicates that this meter is suitable for measurements in distribution-level electrical installations, such as equipment in fixed installations, and industrial plant equipment. Do not use this meter for measurements in CAT IV environments (e.g., utility service entrance).

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Milwaukee 2237-20 Clamp Meter

- 1 x Test Lead Set (Red and Black)
- 2 x AA Batteries
- 1 x User Manual

## 4. PRODUCT FEATURES

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- **True-RMS Measurement:** Provides accurate readings for both sinusoidal and non-sinusoidal waveforms.
- **Wide Jaw Opening:** 1.3-inch jaw opening accommodates large conductors.
- **Thin Jaw Profile:** Designed for easier access to wires in crowded panels or bundles.
- **Voltage Range:** Measures up to 600 AC/DC volts.
- **Current Range:** Measures up to 600 amps AC.
- **Measurement Functions:** Includes frequency, resistance (up to 6 kohms), continuity, and capacitance.
- **Non-Contact Voltage Detection:** Integrated feature for identifying live circuits without direct contact.
- **LED Work Light:** Enhances visibility in dimly lit work areas.
- **High-Contrast Display:** White-on-black display for clear readability.
- **Durable Construction:** Features rugged over-molding for jobsite durability.





Figure 1: Front view of the Milwaukee 2237-20 Clamp Meter, showing the display, rotary dial, and function buttons.

## 5. SETUP

### 5.1 Battery Installation

1. Locate the battery compartment cover on the back of the meter.
2. Use a screwdriver to remove the screw securing the cover.
3. Insert two AA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover and secure it with the screw.

### 5.2 Test Lead Connection

- Connect the black test lead to the "COM" (Common) input jack.
- Connect the red test lead to the "VΩ" (Voltage/Resistance) input jack for voltage, resistance, continuity, and capacitance measurements.
- Ensure connections are secure before use.

## 6. OPERATING INSTRUCTIONS

### 6.1 Power On/Off

Rotate the central dial to the desired measurement function to power on the meter. To power off, rotate the dial to the "OFF" position.

## 6.2 AC Current Measurement (Clamp)

1. Rotate the dial to the "A~" (AC Amps) position.
2. Press the jaw release lever to open the clamp.
3. Enclose a single conductor within the clamp jaws. Ensure the jaws are fully closed.
4. Read the AC current value on the display.





Figure 2: Angled view of the Milwaukee 2237-20 Clamp Meter, highlighting the clamp jaws and display.

### 6.3 AC/DC Voltage Measurement

1. Rotate the dial to the "V~" (AC Volts) or "V-" (DC Volts) position.
2. Connect the red test lead to the positive side of the circuit and the black test lead to the negative side or ground.
3. Read the voltage value on the display.

### 6.4 Resistance Measurement

1. Rotate the dial to the "Ω" (Ohms) position.
2. Ensure the circuit is de-energized before measuring resistance.
3. Connect the test leads across the component to be measured.
4. Read the resistance value on the display.

### 6.5 Continuity Test

1. Rotate the dial to the "Ω" (Ohms) position and press the function button to select continuity (indicated by a speaker icon).
2. Ensure the circuit is de-energized.
3. Connect the test leads across the circuit or component.
4. A continuous beep indicates continuity (low resistance).

### 6.6 Capacitance Measurement

1. Rotate the dial to the "Ω" (Ohms) position and press the function button to select capacitance (indicated by a capacitor icon).
2. Ensure the capacitor is discharged before measurement.
3. Connect the test leads across the capacitor terminals.
4. Read the capacitance value on the display.

### 6.7 Frequency Measurement (Hz)

1. Rotate the dial to the "V~" (AC Volts) position.
2. Press the "Hz" button.
3. Connect the test leads to the AC voltage source.
4. Read the frequency value on the display.

### 6.8 Non-Contact Voltage Detection

1. Rotate the dial to the "NCV" (Non-Contact Voltage) position.
2. Move the top of the meter near a live conductor.
3. The meter will indicate the presence of AC voltage with an audible beep and/or visual indicator.

### 6.9 LED Work Light

Press the dedicated work light button (if available, or a multi-function button) to activate the LED work light for illumination in dark areas.

### 6.10 Special Functions (MIN/MAX, HOLD, ZERO)

- **MIN/MAX:** Press the "MIN/MAX" button to record the minimum and maximum readings during a measurement session.
- **HOLD:** Press the "HOLD" button to freeze the current reading on the display. Press again to release.
- **ZERO:** For certain measurements (e.g., capacitance, resistance), the "ZERO" button can be used to null out residual readings or test lead resistance.

## 7. MAINTENANCE

### 7.1 Cleaning

Wipe the meter's casing with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents. Ensure the meter is dry before storage or next use.

### 7.2 Battery Replacement

When the low battery indicator appears on the display, replace the AA batteries as described in Section 5.1.

### 7.3 Storage

Store the meter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Inaccurate readings.	Incorrect function selected; poor test lead connection; external interference.	Verify function dial setting; ensure secure test lead connections; move away from strong electromagnetic fields.

Problem	Possible Cause	Solution
No continuity beep.	Circuit not continuous; continuity function not selected.	Ensure circuit is complete; press function button to select continuity.
Clamp measurement shows zero.	Multiple conductors in clamp; very low current; DC current selected for AC measurement.	Ensure only one conductor is clamped; verify current flow; select AC Amps for AC current.

## 9. SPECIFICATIONS

Parameter	Detail
Model Number	2237-20
Brand	Milwaukee
Measurement Type	True-RMS
AC Current Range	Up to 600 Amps AC
AC/DC Voltage Range	Up to 600 Volts AC/DC
Resistance Range	Up to 6 kOhms
Jaw Opening	1.3 inches
Safety Rating	CAT III 600V
Power Source	2 x AA Alkaline Batteries (included)
Display	High Contrast White on Black
Item Weight	1.5 Pounds
Material	Metal

## 10. WARRANTY AND SUPPORT



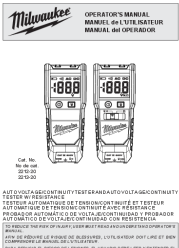


### Warranty Information

The Milwaukee 2237-20 Clamp Meter is covered by a 5-Year Manufacturer's Warranty. This warranty covers defects in material and workmanship. For specific terms and conditions, please refer to the warranty card included with your product or visit the official Milwaukee website.

### Customer Support

For technical assistance, service, or warranty claims, please contact Milwaukee customer support.

- **Website:** [www.milwaukeetool.com](http://www.milwaukeetool.com)
- **Phone:** Refer to the official website for regional contact numbers.

	<p><a href="#">Milwaukee MW805 MAX Portable pH EC TDS Temperature Meter Instruction Manual</a></p> <p>Instruction manual for the Milwaukee MW805 MAX portable meter, covering pH, EC, TDS, and temperature measurements. Learn about features, operation, calibration, and maintenance.</p>
	<p><a href="#">Milwaukee MW801 &amp; MW802 Portable pH/EC/TDS Meter User Manual</a></p> <p>User manual for Milwaukee portable pH/EC/TDS meters, models MW801 and MW802. Includes operation, calibration, maintenance, and specifications.</p>
	<p><a href="#">Milwaukee Auto Voltage/Continuity Tester Operator's Manual</a></p> <p>Operator's manual for the Milwaukee 2212-20 and 2213-20 Auto Voltage/Continuity Testers. Provides safety instructions, specifications, operation, maintenance, and warranty information for electrical testing.</p>
	<p><a href="#">Milwaukee M18 FUEL ONE KEY Impact Wrenches Service Parts List</a></p> <p>Official service parts list for Milwaukee M18 FUEL ONE KEY Impact Wrenches (models 2862-20, 2863-20, 2864-20). Includes part numbers, descriptions, and service contact information for Milwaukee Electric Tool.</p>
	<p><a href="#">Milwaukee MW805 MAX Portable Meter Instruction Manual</a></p> <p>Comprehensive instruction manual for the Milwaukee MW805 MAX portable meter, detailing its features, specifications, operation, calibration, maintenance, and troubleshooting for pH, EC, TDS, and temperature measurements.</p>



# INSTRUCTION MANUAL

MW180 MAX  
pH/mV/EC/TDS/NaCl/Temperature  
Bench Meter



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## [Milwaukee MW180 MAX Bench Meter Instruction Manual](#)

Comprehensive instruction manual for the Milwaukee MW180 MAX Bench Meter, detailing its features, specifications, operation, calibration, and maintenance for pH, mV, EC, TDS, NaCl, and temperature measurements.