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HABOTEST HT208D

Habotest HT208D Digital Clamp Meter User Manual

Model: HT208D

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of the Habotest HT208D Digital Clamp Meter. Please read this manual thoroughly before using the device to ensure proper function and to prevent potential hazards. Keep this manual for future reference.



Figure 1: Habotest HT208D Digital Clamp Meter and included accessories.

2. SAFETY INFORMATION

Warning:

- Always adhere to local and national safety codes.
- Do not use the meter if it appears damaged or if the insulation on the test leads is compromised.
- Ensure the meter is set to the correct function and range before making measurements.
- Avoid contact with live circuits. Use appropriate personal protective equipment (PPE).
- Do not exceed the maximum input values specified for each range.
- Replace batteries promptly when the low battery indicator appears.
- Servicing should only be performed by qualified personnel.

This device conforms to CE and RoHS standards.

3. PRODUCT OVERVIEW

3.1 Components



Figure 2: Key components of the HT208D Digital Clamp Meter.

1. Current Clamp Jaw
2. NCV Sensor
3. Jaw Trigger
4. Input Terminals (COM, VΩHz)
5. Function Buttons (FUNC, RAN, MAX/MIN, REL/ZERO)
6. Rotary Function Switch
7. LCD Display
8. Backlight/Flashlight Button

3.2 Display Icons



Figure 3: Common display icons and their functions.

- **°C/°F:** Temperature unit selection.
- **V=:** DC Voltage measurement.
- **V~:** AC Voltage measurement.
- **INRUSH:** Inrush current measurement.
- **A=:** DC Current measurement.
- **A~:** AC Current measurement.
- **VFD:** Variable Frequency Drive measurement.
- **Ω:** Resistance measurement.
- **Diode Symbol:** Diode test.
- **Power Symbol:** Power on/off.
- **Wifi Symbol:** NCV (Non-Contact Voltage) detection.
- **%:** Duty Cycle measurement.
- **NCV:** Non-Contact Voltage mode.
- **Capacitance Symbol:** Capacitance measurement.
- **Hz:** Frequency measurement.

4. SETUP

4.1 Battery Installation

The Habotest HT208D requires 3 AAA batteries for operation. To install or replace batteries:

1. Ensure the meter is turned OFF.
2. Locate the battery compartment cover on the back of the meter.
3. Use a screwdriver to open the battery compartment.
4. Insert three AAA batteries, observing correct polarity (+ and -).
5. Replace the battery compartment cover and secure it with the screw.



Figure 4: Included accessories, including AAA batteries for installation.

4.2 Connecting Test Leads

For voltage, resistance, capacitance, frequency, diode, and continuity measurements, connect the test leads:

- Insert the black test lead into the **COM** (Common) input jack.
- Insert the red test lead into the **VΩHz** input jack.



Figure 5: Correct connection of test leads to the meter.

5. OPERATING INSTRUCTIONS

Turn the rotary switch to the desired measurement function. Use the **FUNC** button to cycle through sub-functions if available (e.g., AC/DC voltage, diode/continuity).

5.1 AC/DC Voltage Measurement (V~ / V=)

1. Set the rotary switch to the **V** position.
2. Press **FUNC** to select AC (V~) or DC (V=) voltage.
3. Connect the test leads in parallel to the circuit under test.
4. Read the voltage value on the display.

5.2 AC/DC Current Measurement (A~ / A=)

For AC/DC current, use the clamp jaw. Ensure the circuit is de-energized before clamping.

1. Set the rotary switch to the **A** position.
2. Press **FUNC** to select AC (A~) or DC (A=) current.
3. Press the jaw trigger to open the clamp jaw.

4. Enclose only one conductor of the circuit within the clamp jaw.
5. Release the trigger to close the jaw securely around the conductor.
6. Read the current value on the display.



Figure 6: The clamp jaw has a maximum opening of 36mm for current measurement.

5.3 Resistance Measurement (Ω)

1. Set the rotary switch to the Ω position.
2. Ensure the circuit is de-energized before connecting test leads.
3. Connect the test leads across the component to be measured.
4. Read the resistance value on the display.

5.4 Continuity Test

1. Set the rotary switch to the Ω position.
2. Press **FUNC** until the continuity symbol (speaker icon) appears.
3. Connect the test leads across the circuit or component.
4. A continuous beep indicates continuity (low resistance).

5.5 Diode Test

1. Set the rotary switch to the **Ω** position.
2. Press **FUNC** until the diode symbol appears.
3. Connect the red test lead to the anode and the black test lead to the cathode of the diode.
4. Read the forward voltage drop on the display. Reverse the leads to check for open circuit.

5.6 Capacitance Measurement

1. Set the rotary switch to the **Capacitance** symbol position.
2. Ensure the capacitor is fully discharged before testing.
3. Connect the test leads across the capacitor terminals.
4. Read the capacitance value on the display.

5.7 Frequency (Hz) and Duty Cycle (%) Measurement

1. Set the rotary switch to the **Hz%** position.
2. Press **FUNC** to switch between Frequency (Hz) and Duty Cycle (%).
3. Connect the test leads in parallel to the circuit under test.
4. Read the frequency or duty cycle value on the display.

5.8 Temperature Measurement (°C/°F)

1. Set the rotary switch to the **°C/°F** position.
2. Connect the K-type thermocouple (if included) to the input jacks, observing polarity.
3. Place the thermocouple tip on the object to be measured.
4. Read the temperature on the display. Press **FUNC** to switch between Celsius and Fahrenheit.

5.9 NCV (Non-Contact Voltage) Detection

1. Set the rotary switch to the **NCV/LIVE** position.
2. Bring the NCV sensor (top of the clamp jaw) close to the conductor.
3. The meter will beep and the LED will flash if AC voltage is detected.

5.10 VFD (Variable Frequency Drive) Measurement

1. Set the rotary switch to the **VFD** position.
2. Connect the test leads in parallel to the VFD output.
3. Read the voltage value on the display. This mode filters out high-frequency noise.

5.11 Inrush Current Measurement

1. Set the rotary switch to the **INRUSH** position.
2. Open the clamp jaw and enclose the conductor of the device to be measured.
3. Turn on the device. The meter will capture the peak starting current.
4. Read the inrush current value on the display.

6. MAINTENANCE

6.1 Cleaning

Wipe the meter casing with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the meter is dry before storage or use.

6.2 Battery Replacement

Refer to Section 4.1 for battery installation instructions. Replace batteries when the low battery indicator appears on the display to ensure accurate readings.

6.3 Storage

If the meter is not used for an extended period, remove the batteries to prevent leakage. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
No reading or "OL" displayed.	Overload, open circuit, or incorrect range.	Select a higher range, check circuit continuity, ensure proper connection.
Inaccurate readings.	Low battery, dirty test leads, or external interference.	Replace batteries, clean test leads, move away from strong electromagnetic fields.
Continuity test does not beep.	Open circuit or high resistance.	Check the circuit for breaks; ensure test leads are making good contact.

8. SPECIFICATIONS



Figure 7: Physical dimensions of the HT208D Digital Clamp Meter.

- **Model:** HT208D
- **Brand:** HABOTEST
- **AC Current:** 60A/600A/1000A
- **DC Current:** 60A/600A/1000A
- **AC Voltage:** 6V/60V/600V/750V
- **DC Voltage:** 6V/60V/600V/1000V
- **Resistance:** 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ
- **Capacitance:** 10nF/100nF/1μF/10μF/100μF/1mF/10mF/100mF
- **Frequency:** 10Hz to 10MHz
- **Temperature:** -20°C to 1000°C (-4°F to 1832°F)
- **Diode Test:** Yes
- **Continuity Test:** Yes
- **NCV:** Yes
- **VFD:** Yes
- **Inrush Current:** Yes
- **Display:** LCD with backlight

- Power Source:** 3 x AAA batteries
- Dimensions:** Approximately 240mm x 85mm x 47mm
- Weight:** Approximately 660 grams
- Safety Rating:** CAT III 1000V, CAT IV 600V
- Certifications:** CE, RoHS

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Habotest website or contact your local distributor. Keep your purchase receipt as proof of purchase.

This product is designed for reliable performance, but in case of any issues, professional assistance is recommended.

Related Documents - HT208D

 <p>Cyfrowy miernik cewkowy Habotest 208D Instrukcja obsługi</p> <p>Przed korzystaniem z urządzenia, należy zapoznać się z instrukcją i zachować ją na przyszłość.</p>	<p>Habotest HT208D Digital Clamp Meter User Manual</p> <p>Comprehensive user manual for the Habotest HT208D digital clamp meter, covering safety instructions, operation, features like Inrush and VFD measurements, and detailed technical specifications for electrical measurements.</p>
 <p>Cyfrowy miernik cewkowy Habotest 208D Instrukcja obsługi</p> <p>Przed korzystaniem z urządzenia, należy zapoznać się z instrukcją i zachować ją na przyszłość.</p>	<p>Habotest HT208D Digital Clamp Meter User Manual</p> <p>User manual for the Habotest HT208D digital clamp meter, covering safety information, symbols, introduction, operation, and specifications for measuring AC/DC voltage, current, frequency, resistance, capacitance, temperature, and more.</p>
 <p>Habotest HT208D Uživatelský manuál pro klešťový multimeter</p> <p>Kompletní uživatelský manuál pro klešťový multimeter Habotest HT208D, pokrývající bezpečnostní pokyny, popis produktu, specifikace, návod k použití a pokročilé funkce.</p>	<p>Habotest HT208D Uživatelský manuál pro klešťový multimeter</p> <p>Kompletní uživatelský manuál pro klešťový multimeter Habotest HT208D, pokrývající bezpečnostní pokyny, popis produktu, specifikace, návod k použití a pokročilé funkce.</p>
 <p>Habotest HT208D AC/DC Digital Clamp Meter User Manual</p> <p>Comprehensive user manual for the Habotest HT208D AC/DC Digital Clamp Meter, detailing safety precautions, operation instructions, measurement functions, and technical specifications. Learn how to use the device for voltage, current, resistance, capacitance, frequency, temperature, and continuity measurements.</p>	<p>Habotest HT208D AC/DC Digital Clamp Meter User Manual</p> <p>Comprehensive user manual for the Habotest HT208D AC/DC Digital Clamp Meter, detailing safety precautions, operation instructions, measurement functions, and technical specifications. Learn how to use the device for voltage, current, resistance, capacitance, frequency, temperature, and continuity measurements.</p>

CYFROWY MIERNIK CĘDOWY



INSTRUKCJA OBSŁUGI

PROSTY I WALNE PRZEDSTAWIENIE INSTRUKCJI OBSŁUGI
DZIAŁANIA IZU ALEJ WŁAŚCIWYCH DLA DEWA.

[HABOTEST HT206D Digital Clamp Meter User Manual and Specifications](#)

Detailed user manual for the HABOTEST HT206D digital clamp meter, covering safety instructions, measurement procedures for AC/DC voltage, current, resistance, frequency, capacitance, temperature, continuity, diode testing, NCV detection, and technical specifications.



[HT118E Digital Multimeter User Manual](#)

Comprehensive user manual for the HT118E Digital Multimeter, covering safety instructions, operation specifications, measurement procedures, technical data, and maintenance for the HABOTEST® device.