

HABOTEST HT3001

HABOTEST HT3001 Universal Multimeter Test Leads

User Manual

1. INTRODUCTION

The HABOTEST HT3001 Universal Multimeter Test Leads are designed to extend the capabilities of your digital multimeter. This set includes a pair of red and black comfort-grip probes with flexible PVC-insulated test leads, engineered for durability and reliable performance in various electrical testing environments. These leads are rated for safety up to CAT III 1000V, ensuring safe operation within specified parameters.

2. SAFETY INFORMATION

Always adhere to safety precautions when working with electrical equipment. Failure to do so may result in injury or damage to equipment.

- **Voltage Rating:** These test leads are rated for a maximum of 1000V. Do not use them in circuits exceeding this voltage.
- **Current Rating:** The maximum current rating is 10A/20A. Ensure your measurements do not exceed this limit.
- **Category Rating:** CAT III 1000V indicates suitability for measurements in building installation (e.g., distribution boards, circuit breakers, wiring, including cables, bus-bars, junction boxes, switches, socket outlets in the fixed installation, and industrial use equipment like stationary motors with permanent connection to fixed installation).
- **Inspection:** Before each use, inspect the test leads for any signs of damage, such as cracked insulation, exposed wires, or bent probe tips. Do not use damaged leads.
- **Proper Connection:** Always connect the test leads to the multimeter and the circuit correctly before taking measurements.
- **Dry Conditions:** Use the test leads in dry conditions. Avoid contact with moisture or liquids.
- **Personal Protective Equipment:** Always wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves, when performing electrical measurements.

3. PRODUCT FEATURES

- **Safety Rating:** CAT III 1000V for enhanced safety.
- **Maximum Current:** Supports measurements up to 10A/20A.
- **Cable Length:** Approximately 81 cm (32 inches) for flexible use.
- **Insulation:** Flexible PVC insulation for durability and ease of handling.
- **Probe Tips:** Ultra-sharp, gold-plated probe tips for accurate contact on small points.

- **Connectors:** Shrouded banana plugs ensure secure and compatible connections with most multimeters.
- **Durability:** Heat and cold resistant design for reliable performance in varying temperatures.

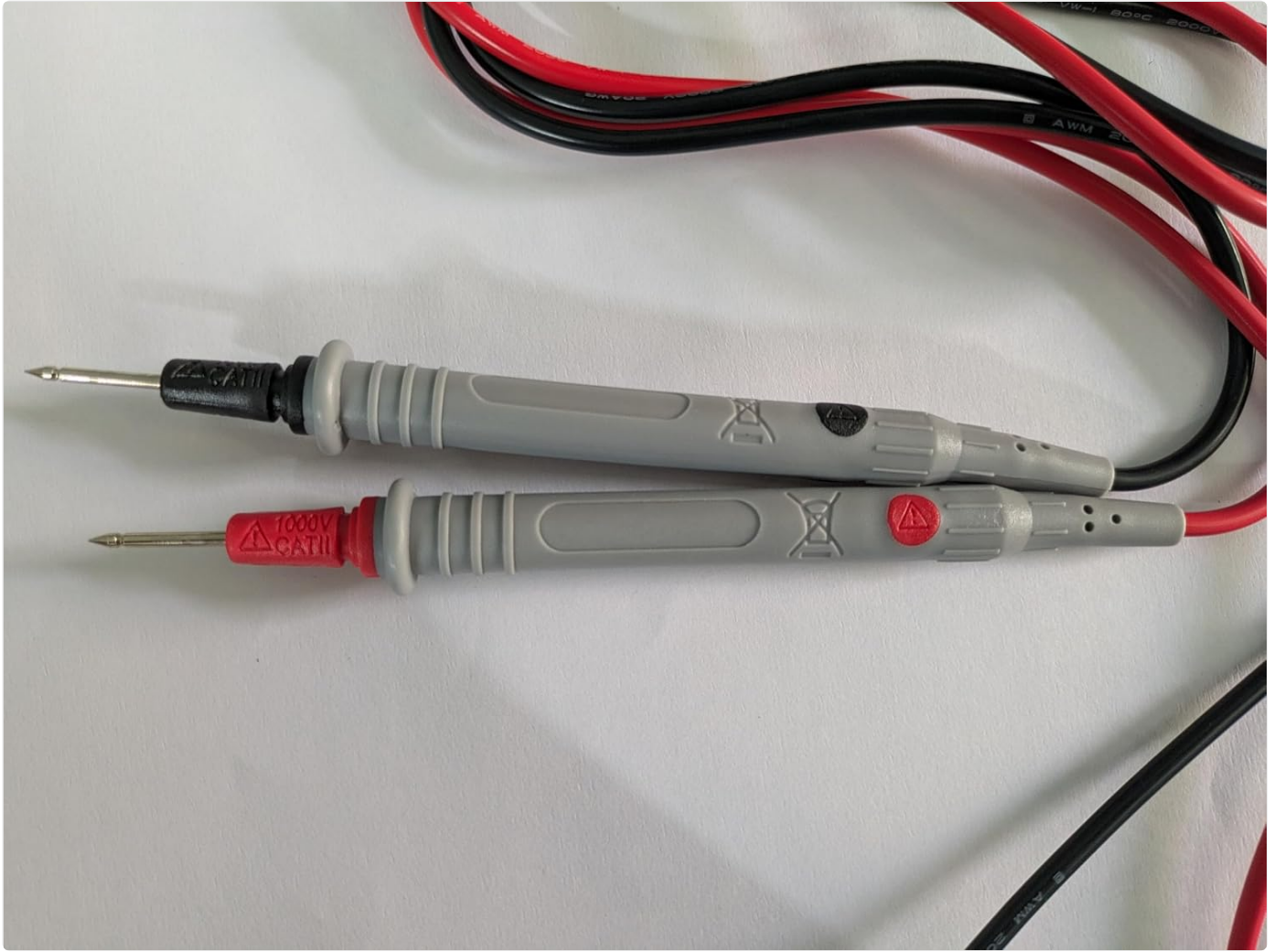


Image: Close-up view of the probe tips, highlighting the CAT III 1000V safety rating and sharp, gold-plated design.

4. PACKAGE CONTENTS

The HABOTEST HT3001 package includes:

- 1 x Red Universal Multimeter Test Probe
- 1 x Black Universal Multimeter Test Probe

1. Ensure your multimeter is turned off before connecting the leads.
2. Locate the input jacks on your multimeter. Typically, there will be a common (COM) jack, a voltage/resistance ($V\Omega$) jack, and a current (mA/A) jack.
3. Insert the black test lead's banana plug into the multimeter's **COM** (Common) jack.
4. Insert the red test lead's banana plug into the appropriate measurement jack:
 - For voltage, resistance, or continuity measurements, insert into the **$V\Omega$** jack.
 - For current measurements, insert into the **mA** or **A** jack, depending on the expected current range.
5. Ensure both plugs are fully inserted and secure.



Image: Close-up view of the shrouded banana plugs, designed for secure connection to multimeter input jacks.

6. OPERATING INSTRUCTIONS

Once the test leads are properly connected to your multimeter, follow these general steps for operation:

1. **Select Function:** Turn on your multimeter and select the desired measurement function (e.g., DC Voltage, AC Voltage, Resistance, Continuity, Current).

2. **Select Range:** Choose an appropriate range for your measurement. If unsure, start with the highest range and work downwards.
3. **Connect to Circuit:** Carefully connect the probe tips to the circuit or component you wish to measure. Ensure good contact.
4. **Read Measurement:** Observe the reading on your multimeter's display.
5. **Disconnect:** Always disconnect the test leads from the circuit before changing the multimeter function or range, or when finished with measurements.



Image: The HABOTEST HT3001 test leads, showing their full length and design, ready for connection to a multimeter.

7. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your test leads:

- **Cleaning:** Wipe the leads with a clean, dry, soft cloth after each use. Do not use abrasive cleaners or solvents.
- **Storage:** Store the test leads in a clean, dry place, away from direct sunlight and extreme temperatures. Avoid kinking or sharply bending the cables.
- **Inspection:** Regularly inspect the insulation, probe tips, and connectors for any signs of wear or damage. Replace the leads if any damage is observed.

8. TROUBLESHOOTING

If you encounter issues while using your test leads, consider the following:

- **No Reading/Incorrect Reading:**
 - Ensure the test leads are securely plugged into the correct multimeter jacks.
 - Verify the multimeter function and range are correctly selected for the measurement.
 - Check for good contact between the probe tips and the circuit points.
 - Inspect the leads for any visible damage or breaks in the cable.
- **Intermittent Readings:**
 - This could indicate a loose connection at the multimeter or within the lead itself. Re-seat the plugs or inspect the cable for internal damage.

If problems persist after checking these points, the test leads may need replacement.

9. SPECIFICATIONS

Specification	Value
Brand	HABOTEST
Model Number	HT3001
Maximum Voltage	1000 V
Maximum Current	10A/20A
Safety Rating	CAT III 1000V
Cable Length	Approximately 81 cm
Insulation Material	PVC
Probe Tip Material	Gold-plated
Connector Type	Shrouded Banana Plugs
Item Weight	200 Grams
Product Dimensions (L x W x H)	18 x 7 x 4 Centimeters
Country of Origin	China

10. WARRANTY AND SUPPORT

Warranty:

This product may be eligible for an extended warranty, such as a "1 Year Extended Warranty by Onsitego," if purchased

separately. Please refer to your purchase documentation for specific warranty terms and conditions. Standard product warranties typically cover manufacturing defects for a limited period from the date of purchase.

Customer Support:

For technical assistance, product inquiries, or support related to your HABOTEST HT3001 test leads, please contact the importer:

MDS Automech Solutions

Q-106, Phase 3, Shivalik Nagar, BHEL,
Haridwar, Uttarakhand-249403, India

Contact: +91-9870694636

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question