

## INGCO DCM6003

# INGCO DCM6003 600V Digital Clamp Meter User Manual

## 1. INTRODUCTION

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The INGCO DCM6003 is a digital clamp meter designed for accurate measurement of electrical current and voltage. It features a practical design for comfortable and controlled use, making it suitable for various electrical testing applications. This manual provides essential information for the safe and efficient operation, setup, maintenance, and troubleshooting of your device.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent personal injury and damage to the meter or equipment under test.

- Read and understand all instructions in this manual before using the meter.
- Do not apply more than the rated voltage, as marked on the meter, between the terminals or between any terminal and earth ground. The maximum operating voltage is 600V.
- Use extreme caution when working with voltages above 60V DC or 30V AC RMS. Such voltages pose a shock hazard.
- Keep your fingers behind the probe barriers during measurement.
- Do not use the meter if it appears damaged or if the insulation is compromised.
- Ensure the meter is set to the correct function and range before making measurements.
- Disconnect the test leads from the circuit before changing functions.
- Do not operate the meter in explosive gas, vapor, or dust environments.
- Always use proper safety equipment, such as insulated gloves and eye protection.

## 3. PRODUCT OVERVIEW

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### Components

The INGCO DCM6003 Digital Clamp Meter consists of several key components for its operation:

- **Clamp Jaw:** Used for non-contact measurement of AC current.
- **Function/Range Selector Dial:** To select the desired measurement function (e.g., AC Current, AC/DC



display will illuminate.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Measuring AC Current

To measure AC current using the clamp jaw:

1. Turn the function selector dial to the 'A~' (AC Current) position.
2. Press the trigger to open the clamp jaw.
3. Enclose only one conductor of the circuit within the clamp jaw. Ensure the jaw is completely closed.
4. Read the AC current value on the LCD display.
5. To hold the reading, press the 'HOLD' button. Press it again to release.

### 5.2 Measuring AC/DC Voltage

To measure AC or DC voltage:

1. Insert the red test lead into the 'VΩmA' jack and the black test lead into the 'COM' jack.
2. Turn the function selector dial to the 'V~' (AC Voltage) or 'V=' (DC Voltage) position.
3. Connect the test probes in parallel to the circuit or component you wish to measure.
4. Read the voltage value on the LCD display.
5. To hold the reading, press the 'HOLD' button. Press it again to release.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and accuracy of your INGCO DCM6003 clamp meter.

- **Cleaning:** Wipe the meter with a dry, soft cloth. Do not use abrasives or solvents.
- **Battery Replacement:** When the battery indicator appears on the display, replace the batteries immediately to ensure accurate readings. Refer to the 'Setup' section for battery installation.
- **Storage:** If the meter is not to be 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.
- **Calibration:** For professional use, periodic calibration by a qualified technician is recommended to maintain accuracy.

## 7. TROUBLESHOOTING

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If you encounter issues with your clamp meter, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Meter does not power on	Dead or incorrectly installed batteries	Check battery polarity or replace batteries.

Problem	Possible Cause	Solution
No reading or 'OL' displayed	Incorrect function selected, open circuit, or measurement exceeds range	Select correct function, check circuit continuity, or ensure measurement is within meter's range. For current, ensure only one conductor is clamped.
Inaccurate readings	Low battery, external interference, or dirty test leads	Replace batteries, move away from strong electromagnetic fields, clean test leads.
Clamp jaw not closing properly	Obstruction or damage	Inspect the jaw for any foreign objects. If damaged, do not use and seek professional repair.

## 8. SPECIFICATIONS

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Detailed technical specifications for the INGCO DCM6003 Digital Clamp Meter:

Specification	Value
Brand Name	INGCO
Power Source	Wired Electric (Battery Operated)
Style	Digital
Color	Yellow
Item Dimensions (LxWxH)	10 x 20 x 37 cm
Specifications Met	600 Volt
Measurement Type	Clamp Meter
Maximum Operating Voltage	600 Volt
Manufacturer	INGCO

## 9. WARRANTY AND SUPPORT

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INGCO products are manufactured to high-quality standards and are warranted against defects in materials and workmanship. The specific warranty period may vary by region and product type. Please retain your proof of purchase for warranty claims.

For technical support, service, or warranty inquiries, please contact your local INGCO distributor or authorized service center. Contact information can typically be found on the official INGCO website or on the product packaging.

Please note that extended protection plans offered by third-party retailers are separate from the manufacturer's warranty and are subject to their own terms and conditions.

