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## CAMWAY CAMWAY-600ADT

# CAMWAY Digital Clamp Meter TRMS 4000 Counts

Model: CAMWAY-600ADT

Instruction Manual

## 1. INTRODUCTION

Thank you for choosing the CAMWAY Digital Clamp Meter TRMS 4000 Counts. This auto-ranging clamp multimeter is designed for precise measurement of various electrical parameters, including AC/DC voltage, AC current, resistance, capacitance, temperature, diode, and continuity. It also features Non-Contact Voltage (NCV) detection, a data hold function, a backlit LCD, and a built-in flashlight for enhanced usability and safety in diverse environments.

## 2. SAFETY INFORMATION

Always adhere to basic safety precautions when using this product to reduce the risk of injury or damage. Read and understand all instructions before use.

- **Do not exceed the maximum input values** for any measurement function.
- **Exercise extreme caution** when working with voltages above 36V DC or 25V AC RMS, as these can pose a shock hazard.
- **Inspect test leads** for damaged insulation or exposed metal before use. Replace if damaged.
- **Ensure the meter is in the correct function and range** before making measurements.
- **Do not use the meter if it appears damaged** or if it is not operating properly.
- **Remove test leads from the circuit** before changing functions.
- **Replace batteries** when the low battery indicator appears to ensure accurate readings.

## 3. PRODUCT COMPONENTS

The CAMWAY Digital Clamp Meter package includes the following items:

- Digital Clamp Meter (CAMWAY-600ADT)
- Test Leads (Red and Black)
- K-Type Thermocouple (for temperature measurement)
- AAA Batteries (2 included)
- User Manual
- Soft Zippered Pouch

- Screwdriver

- △ 1x Digitale Stromzange
- △ 1x K-Typ Thermoelement
- △ 1x Messleitungen (Paar)
- △ 1x Krokodilklemme (Paar)
- △ 2x 1,5V AAA-Batterien (mitgeliefert)
- △ 1x Benutzerhandbuch
- △ 1x Schraubendreher



Image: Contents of the CAMWAY Digital Clamp Meter package, showing the meter, red and black test leads, a K-type thermocouple, two AAA batteries, the user manual, a soft zippered pouch, and a small screwdriver.

## 4. SETUP

### 4.1 Battery Installation

1. Locate the battery compartment cover on the back of the meter.
2. Use the included screwdriver to loosen the screw on the battery cover.
3. Remove the cover and insert two AAA batteries, observing the correct polarity (+/-).
4. Replace the battery cover and tighten the screw.

### 4.2 Connecting Test Leads

- For most voltage, resistance, capacitance, diode, and continuity measurements, insert the black test lead into the 'COM' (common) jack and the red test lead into the 'INPUT' jack.
- For temperature measurements, connect the K-type thermocouple to the designated jacks (usually marked with temperature symbols).

## 5. OPERATING INSTRUCTIONS

## 5.1 Power On/Off and Mode Selection

- Turn the rotary dial to the desired measurement function to power on the meter.
- To power off, turn the rotary dial to the 'OFF' position.
- Use the 'SEL' (Select) button to switch between AC and DC modes or other sub-functions within a main rotary dial setting (e.g., AC Voltage vs. DC Voltage).

## 5.2 Data Hold, Backlight, and Flashlight

- Press the 'HOLD' button to freeze the current reading on the display. Press again to release.
- Press the backlight button (often marked with a light bulb symbol) to activate the LCD backlight for improved visibility in dim conditions. Hold the button to activate the flashlight.



Image: The CAMWAY Digital Clamp Meter with its large backlit LCD screen displaying a reading and the built-in flashlight illuminated, demonstrating its utility in dark environments.

## 5.3 Measurement Functions

### 5.3.1 AC/DC Voltage Measurement

Turn the rotary dial to the 'V~' (AC Voltage) or 'V=' (DC Voltage) position. Connect the test leads in parallel to the circuit or component you wish to measure. The meter will display the voltage reading.



Image: The CAMWAY Digital Clamp Meter displaying an AC voltage reading while test leads are inserted into a wall outlet, and a separate image showing the clamp measuring AC current on a wire.

### 5.3.2 AC Current Measurement (Clamp)

Turn the rotary dial to the 'A~' (AC Current) position. Open the clamp jaws by pressing the trigger. Enclose a single conductor (not a bundle of wires) within the jaws. The meter will display the AC current reading without breaking the circuit.

Video: Demonstration of how to measure DC current using a clamp meter. The video shows the meter clamping around a single wire connected to a power supply, displaying the current reading.

### 5.3.3 Resistance, Capacitance, Diode, and Continuity Measurement

Turn the rotary dial to the respective function symbol ( $\Omega$  for Resistance,  $+$  for Capacitance,  $\rightarrow|$  for Diode, or  $\rightarrow$ ) for Continuity). Connect the test leads to the component. For continuity, a beep indicates a continuous circuit. For diode, it measures forward voltage drop. For resistance and capacitance, it displays the value.

# MULTIFUNKTIONAL

Erzielen Sie präzise Messungen

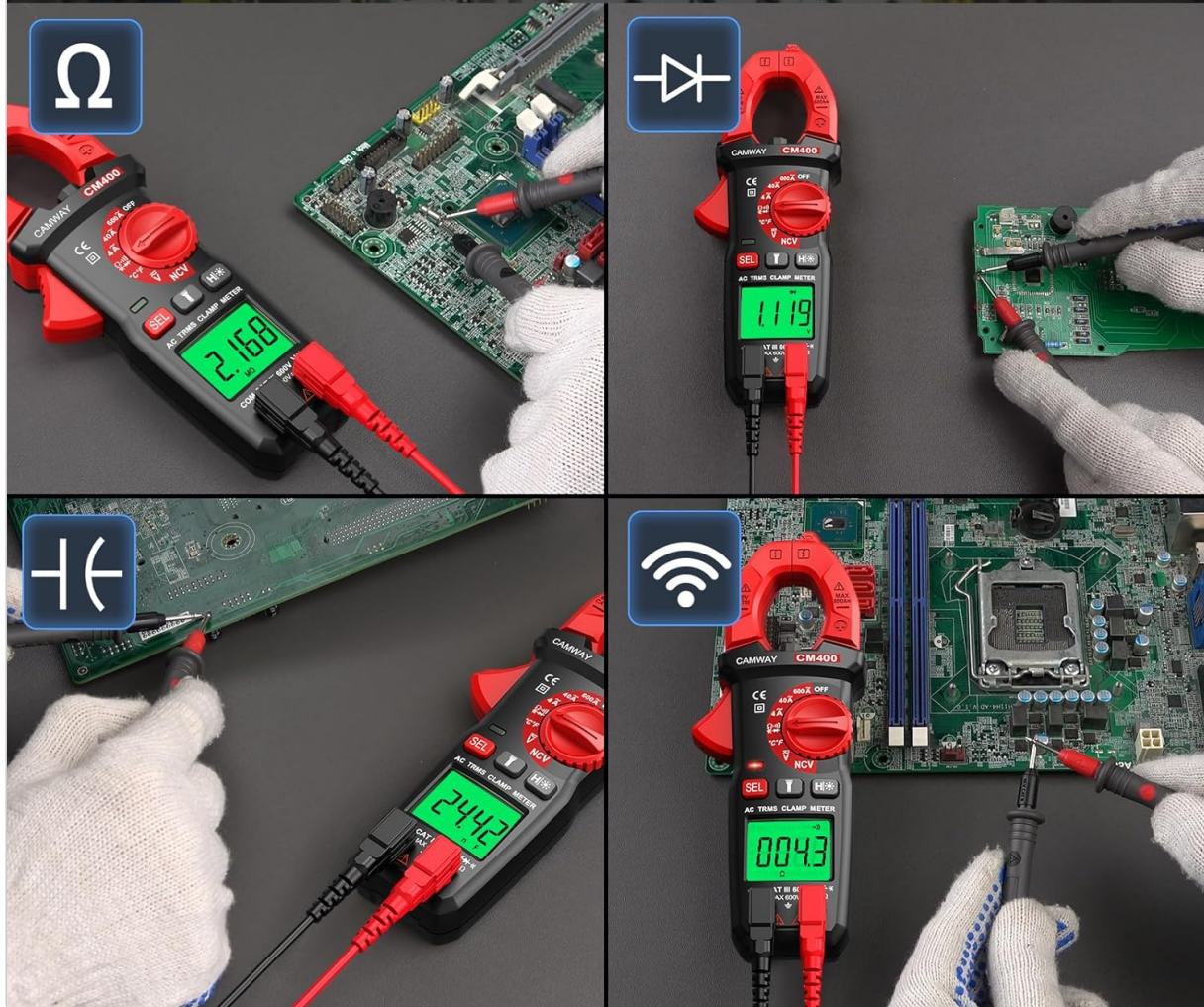


Image: A collage of four images showing the CAMWAY Digital Clamp Meter performing different measurements: resistance ( $\Omega$ ), diode test ( $\rightarrow|$ ), capacitance (+), and continuity ())) on electronic components.

## 5.3.4 Temperature Measurement

Turn the rotary dial to the '°C/°F' position. Connect the K-type thermocouple to the meter. Place the tip of the thermocouple on or in the object whose temperature you wish to measure. The display will show the temperature in Celsius or Fahrenheit.

# TEMPERATUR MESSUNG

Temperaturmessbereich:  $(-20 \sim 1000) ^\circ\text{C} / (-4 \sim 1832) ^\circ\text{F} \pm(1,0\%+5)$

K-Typ Thermoelement  
inklusive



Image: The CAMWAY Digital Clamp Meter connected to a K-type thermocouple, demonstrating temperature measurement in various applications such as liquid, gas, and solid materials.

## 5.3.5 Non-Contact Voltage (NCV) Detection

Turn the rotary dial to the 'NCV' position. Bring the top of the meter near a live AC voltage source. The meter will emit an audible alarm and the LED indicator will flash, indicating the presence of AC voltage without direct contact.

# NICHT KONTAKTIERTE VOLTAGENDECKUNG

Erkennt Wechselspannung ohne Verwendung von Prüflleitungen

Auf dem LCD-Bildschirm  
erscheinen verschiedene  
Bereiche:

LO, -, --, ---, ----

Hochspannung

Niederspannung

Image: The CAMWAY Digital Clamp Meter detecting non-contact voltage near a wall outlet, illustrating how it identifies AC voltage in both high and low voltage scenarios without physical contact.

Video: A demonstration of the FNIRSI DMC-100 Digital Clamp Meter, showcasing its various functions including AC/DC current measurement, voltage measurement, continuity, diode test, and non-contact voltage detection. The video highlights the user interface and practical application of these features.

## 6. MAINTENANCE

### 6.1 Cleaning

Wipe the meter with a dry, soft cloth. Do not use abrasives or solvents. Keep the clamp jaws clean and free of debris.

### 6.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries promptly to ensure accurate operation. Refer to Section 4.1 for battery installation instructions.

### 6.3 Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the meter in its soft zippered pouch 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.                                     |
| Inaccurate readings     | Low battery; incorrect function/range; poor test lead connection | Replace batteries; select correct function/range; ensure secure connections.   |
| No NCV detection        | No AC voltage present; meter too far from source                 | Verify power to circuit; bring meter closer to the conductor.                  |
| 'OL' displayed          | Overload (measurement exceeds range)                             | Switch to a higher range or ensure measurement is within meter's capabilities. |

## 8. TECHNICAL SPECIFICATIONS

| Feature                | Specification                        |
|------------------------|--------------------------------------|
| Brand                  | CAMWAY                               |
| Model Number           | CAMWAY-600ADT                        |
| Display                | 4000 Counts                          |
| AC Current             | Up to 600A                           |
| AC/DC Voltage          | Max 1000V                            |
| Resistance             | Yes                                  |
| Capacitance            | Yes                                  |
| Temperature            | Yes (-20 to 1000 °C / -4 to 1832 °F) |
| Diode Test             | Yes                                  |
| Continuity Test        | Yes                                  |
| NCV Function           | Yes (90V-1000V AC)                   |
| Auto-Ranging           | Yes                                  |
| Data Hold              | Yes                                  |
| Backlight & Flashlight | Yes                                  |
| Power Source           | 2 x AAA Batteries (included)         |
| Item Weight            | 188 g                                |
| Dimensions             | 21.1 x 9.2 x 5.2 cm                  |
| Safety Rating          | CE Marked                            |

## 9. WARRANTY AND SUPPORT

The CAMWAY Digital Clamp Meter comes with a **3-year warranty**, providing peace of mind for your purchase. For technical support, troubleshooting assistance, or warranty claims, please contact CAMWAY customer service through the retailer where the product was purchased or visit the official CAMWAY website.

