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› [Crenova Digital Clamp Meter Multimeter 6000 Counts TRMS Voltage Tester Amp Meter for AC/DC Current/Voltage,Resistance,Capacitance,Frequency,Duty Cycle,Temperature,Continuity,Diode,NCV,Live Wire Test User Manual](#)

Crenova 606C+

Crenova Digital Clamp Meter Multimeter User Manual

Brand: Crenova | Model: 606C+

1. INTRODUCTION

The Crenova 606C+ Digital Clamp Meter is a versatile and reliable tool designed for professional electricians and DIY enthusiasts alike. This handheld, battery-operated digital multimeter is double insulated and engineered to meet safety standard IEC61010-1 CAT II 600V, ensuring safe operation across various applications.

Its auto-ranging design simplifies measurements by automatically selecting the correct range for different circuits and appliances. With a comprehensive set of practical modes and user-oriented features, the 606C+ is suitable for use in homes, schools, laboratories, and industrial settings.



Figure 1.1: The Crenova 606C+ Digital Clamp Meter and included accessories.

2. SAFETY INFORMATION

WARNING: Always read and understand all safety warnings and instructions before operating this device. Failure to do so may result in electric shock, fire, or serious injury.

- This device conforms to IEC61010, double insulation, and CAT III 600V safety standards.
- Always ensure the device is set to the correct measurement function and range before connecting to a circuit.
- Do not attempt to measure current on both live and neutral wires simultaneously with the clamp jaw, as this will result in a zero reading. Only clamp around a single conductor.
- Avoid contact with live circuits. Use appropriate personal protective equipment (PPE).
- Do not operate the meter if it appears damaged or if the test leads are damaged.
- Refer to the full user manual for complete safety guidelines and warnings.

3. SETUP

3.1. Unpacking and Contents

Carefully unpack all items from the product packaging. Verify that all components listed below are present and undamaged.

- 1 x Crenova Clamp Meter (Model 606C+)
- 1 Pair of Probe Test Leads (Red and Black)
- 1 Pair of Alligator Clip Test Leads (Red and Black)
- 1 x K-type Thermocouple
- 2 x LR03 AAA Batteries (1.5V each)
- 1 x Carrying Pouch
- 1 x User Manual (this document)

ALL-IN-ONE SET

Comes with complete accessories and detailed user manual



Figure 3.1: All components included in the Crenova 606C+ set, neatly organized.

3.2. Battery Installation

The Crenova 606C+ requires 2 AAA batteries (1.5V each), which are included in the package. To install or replace batteries:

1. Locate the battery compartment on the back of the meter.
2. Use a screwdriver to open the battery compartment cover.

3. Insert the 2 AAA batteries, ensuring correct polarity (+ and -).
4. Replace the battery compartment cover and secure it with the screw.

A low battery indicator will appear on the LCD when batteries need replacement.

4. OPERATING INSTRUCTIONS

The Crenova 606C+ offers a wide range of measurement capabilities. Familiarize yourself with the function dial and buttons for optimal use.

4.1. Function Overview

MULTIPURPOSE TOOL

Practical modes and functions cover all needs



AC/DC
Current



AC/DC
Voltage



Low
Impedance



Low-Pass
Filter



Inrush
Current



Resistance



Capacitance



Frequency



Duty Cycle



Temperature



Diode



Continuity



Live Wire
Tester



NCV
Detector



Data Hold



Figure 4.1: Overview of the multipurpose functions available on the Crenova 606C+.

The meter features a 6000-count large LCD with backlight for clear readings, even in dark environments. A built-in torch further aids visibility. Key functions include:

- **AC/DC Current (up to 600A):** Measured using the clamp jaw.
- **AC/DC Voltage (up to 600V):** Measured using test leads.
- **Resistance (up to 60M Ω):** Measured using test leads.

- **Capacitance (up to 6mF):** Measured using test leads.
- **Frequency (up to 10MHz):** Measured using test leads.
- **Duty Cycle:** Measured using test leads.
- **Continuity Test:** Audible alarm for continuous circuits.
- **Diode Test:** For checking diode functionality.
- **Non-Contact Voltage (NCV) Detection (48V to 250V AC):** Detects AC voltage without direct contact.
- **Live Wire Test (110V to 380V AC):** Identifies live wires with an audible alarm.
- **Inrush (INR) Current Measurement:** Measures the initial surge of current when a device is turned on.
- **Temperature Measurement (-4°F to 1832°F / -20°C to 1000°C):** Requires the K-type thermocouple.
- **LowZ Mode:** Tests AC voltage with low impedance to reduce false readings from ghost voltage.
- **V.F.C Button:** Long press to enable the low pass filter for specific requirements.
- **REL (Relative) Mode:** Measures the difference from a reference value.
- **HOLD (Data Hold) Mode:** Freezes the current reading on the display.
- **ZERO Mode:** Zeros the meter for accurate readings.

4.2. Current Measurement (Clamp Jaw)

The clamp jaw allows for non-contact measurement of AC/DC current up to 600A. The maximum allowed diameter of the measured wire is 25mm (1.38 inches).

LARGE JAW OPENING

Non-contact, touch-free measurement of a single wire up to 25mm in diameter



Figure 4.2: The large jaw opening (1.38"/35mm) for non-contact measurements.

To measure current:

1. Turn the function dial to the appropriate AC A or DC A range (e.g., 600A). If unsure, start with the higher range.
2. Open the clamp jaw by pressing the trigger.
3. Place the clamp jaw around a **single** conductor of the circuit you wish to measure. Ensure the jaw is fully closed.
Note: Clamping around both live and neutral wires will result in a zero reading as the currents cancel each other out.

4. Read the current value displayed on the LCD.
5. Use the "HOLD" button to freeze the reading if needed.

AC/DC CURRENT MEASUREMENT



Figure 4.3: Measuring AC/DC current by clamping around a single wire.

4.3. Non-Contact Voltage (NCV) and Live Wire Test

The NCV function allows for quick detection of AC voltage without direct contact, providing an audible alarm. The Live Wire Test identifies live wires within a specific voltage range.

NON-CONTACT VOLTAGE DETECTOR

Detection range: AC 48V ~ 250V



Figure 4.4: NCV detection range is AC 48V ~ 250V. Higher voltage results in louder, faster beeps.

4.4. Temperature Measurement

Utilize the included K-type thermocouple to measure temperature across a wide range.

TEMPERATURE MEASUREMENT

Measuring range: $-4^{\circ}\text{F} \sim 1832^{\circ}\text{F}$ ($-20^{\circ}\text{C} \sim 1000^{\circ}\text{C}$)



Figure 4.5: The meter can measure temperature from -4°F to 1832°F (-20°C to 1000°C).

4.5. User-Friendly Features

The 606C+ is designed for ease of use, featuring a bright torch and backlight for working in dimly lit areas, and an auto power-off function to conserve battery life.

EASY READ, EASY WORK

Performs excellent in the dark



Figure 4.6: The torch and backlight features ensure easy readability in dark conditions.

5. MAINTENANCE

- **Cleaning:** Wipe the meter with a dry, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate readings and proper operation.

- **Storage:** Store the meter in its carrying pouch in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Calibration:** For professional use, periodic calibration by a qualified technician is recommended to maintain accuracy.

6. TROUBLESHOOTING

- **No Display/Power:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate Readings:**
 - Ensure the correct function and range are selected.
 - For current measurements, ensure the clamp is around a single conductor only.
 - Check test lead connections for proper seating.
 - Consider external interference if readings are erratic.
- **"OL" or Overload Indication:** The measured value exceeds the selected range. Switch to a higher range or verify the circuit.
- **No Continuity Beep:** Ensure the circuit is de-energized and the test leads are making good contact.

If issues persist, refer to the detailed troubleshooting section in the complete user manual or contact Crenova customer support.

7. SPECIFICATIONS

| Feature | Value |
|----------------------|----------------------------------|
| Product Dimensions | 8.07 x 2.95 x 1.38 inches |
| Item Weight | 1.3 Pounds |
| Model Number | 606C+ |
| Batteries | 2 AAA batteries (included) |
| Brand | Crenova |
| Power Source | Battery Powered |
| Color | Orange |
| Max AC/DC Current | 600A |
| Max AC/DC Voltage | 600V |
| Max Resistance | 60MΩ |
| Max Capacitance | 6mF |
| Max Frequency | 10MHz |
| Temperature Range | -4°F to 1832°F (-20°C to 1000°C) |
| Jaw Opening Diameter | 25mm (1.38 inches) |
| Safety Standards | IEC61010, CAT III 600V |





8. WARRANTY AND SUPPORT


For warranty information and technical support, please refer to the official Crenova website or contact the seller directly through your purchase platform. Keep your proof of purchase for any warranty claims.

For further assistance, you may visit the official Crenova Store:[Crenova Store on Amazon](#).

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Related Documents - 606C+

| | |
|---|---|
|  | <p>Crenova MS8233D Digital Multimeter Instruction Manual</p> <p>Comprehensive instruction manual for the Crenova MS8233D Digital Multimeter, detailing its features, operating instructions, technical specifications, and troubleshooting.</p> |
|  | <p>Spellman High Voltage 2008 Selection Guide: Power Supplies & X-Ray Generators</p> <p>The Spellman High Voltage 2008 Selection Guide provides a comprehensive overview of their extensive range of high-precision DC power supplies, X-ray generators, and integrated X-ray sources. Discover detailed specifications, product series, and application information designed for industrial, scientific, and OEM requirements.</p> |
|  | <p>Crenova A4 Laminator FNL001 User Manual</p> <p>User manual for the Crenova A4 Laminator, model FNL001. Provides operating instructions, safety precautions, and specifications for both hot and cold lamination.</p> |
|  | <p>Crenova Trail Hunting Camera Quick User's Manual</p> <p>This manual provides a comprehensive guide to operating the Crenova Trail Hunting Camera, covering setup, features, testing, and troubleshooting.</p> |

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| <p>USER MANUAL</p> <p>RCN Hybrid STB ROBERTS-3PATH</p> | <p>RCN Hybrid STB User Manual: Setup, Features, and Troubleshooting</p> <p>Comprehensive user manual for the RCN Hybrid STB (ROBERTS-3PATH) by FTA Communication Technologies SARL and CreNova Systems Co., Ltd. This guide covers safety, quick setup, general features, connecting the receiver, channel search, TV viewing, parental controls, firmware updates, and troubleshooting.</p> |
| <p>Multimedia Home Entertainment Video Projector</p>  <p>crenova Quick User Guide-XPE496</p> <p>English, Russian, Portuguese, Spanish, Italian, 01-002</p> <p><small>This document is for informational purposes only. It does not constitute a contract or any other legal document.</small></p> | <p>Crenova XPE496 Multimedia Home Entertainment Video Projector Quick User Guide</p> <p>This guide provides essential information for the Crenova XPE496 multimedia home entertainment video projector, covering safety instructions, box contents, product parts, remote control functions, setup operations, connectivity options, technical specifications, and helpful tips.</p> |