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› Neoteck H5 6000 Counts TRMS Multimeter Instruction Manual

Neoteck H5

Neoteck H5 6000 Counts TRMS Multimeter Instruction Manual

Model: H5 | Brand: Neoteck

1. INTRODUCTION

The Neoteck H5 is a 6000-count True RMS digital multimeter designed for precise electrical measurements. It features an auto-ranging function, a clear color display, and a built-in rechargeable battery for convenience. This versatile tool is suitable for a wide range of applications, from basic electronic repairs to advanced electrical troubleshooting.



This collage demonstrates the multimeter's versatility across different scenarios, including home electrical checks, automotive diagnostics, and general circuit troubleshooting.

2. SAFETY INFORMATION

This multimeter is engineered for safe operation and meets the CAT III 600V safety standard. It features double insulation and built-in overload protection to safeguard against electrical hazards during live measurements. Always adhere to safety guidelines when working with electrical circuits.

- Do not exceed the maximum input values specified for each measurement range.
- Ensure test leads are in good condition and properly connected before use.
- Avoid using the multimeter in wet environments or if the device is damaged.
- Always disconnect power to the circuit before making resistance, capacitance, or diode measurements.



This diagram visually represents the internal overload protection and the CAT III 600V safety standard, emphasizing the device's robust safety features.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Neoteck H5 Multimeter
- 1 x USB Type-C Charging Cable
- 1 x Pair of Test Leads (Red and Black)
- 1 x K-Type Temperature Probe
- 1 x User Manual



This image provides a clear visual of all components supplied with the Neoteck H5 Multimeter, including the device itself, test leads, charging cable, and temperature probe.

4. PRODUCT OVERVIEW

The Neoteck H5 Multimeter features a unique circular color reverse screen for excellent visibility, reducing eye strain during use. Its compact and portable design includes a built-in flashlight for low-light conditions and a kickstand for hands-free operation. The device is powered by a built-in 1000mAh lithium battery, rechargeable via a Type-C port.



This image highlights the multimeter's 6000-count display, color screen, and built-in flashlight feature.

5. SETUP

5.1 Charging the Multimeter

The multimeter comes with a built-in 1000mAh lithium battery. Before first use, or when the battery indicator is low, charge the device using the provided Type-C USB cable.

1. Connect the Type-C end of the charging cable to the multimeter's USB port.
2. Connect the other end of the cable to a standard USB power adapter (not included) or a computer's USB port.
3. The indicator light will be red during charging and turn green when fully charged.

Charging typically takes approximately 4 hours, providing 10-15 hours of battery life.

WIDE APPLICATIONS

Fantastic troubleshooter for every application for convenient carrying

Package Included

1x Digital Multimeter
1x Test Leads (1 Pair)
1x K-Type Thermocouple

1x Type-C Charging Cable
1x User Manual

Household Troubleshooting
Electrician Services
Automotive Electrical Diagnostics
Electrical Engineering Study

The image shows the multimeter being charged via its Type-C port, highlighting its rechargeable nature and battery specifications.

5.2 Connecting Test Leads

Insert the red test lead into the **VΩmA** input jack and the black test lead into the **COM** input jack for most measurements. For current measurements (up to 10A), ensure the red lead is in the appropriate current input jack if available (refer to the device markings).

6. OPERATING MODES

The Neoteck H5 Multimeter offers both an intelligent AUTO mode and specific manual functions for various measurements.

6.1 AUTO Mode

In AUTO mode, the multimeter automatically identifies and measures DC voltage, AC voltage, resistance, and continuity. This simplifies operation by eliminating the need for manual range selection.

6.2 Specific Measurement Functions

Use the 'SEL' button to cycle through specific measurement functions:

- **AC/DC Voltage (V~, V-):** Measures voltage up to 600V.
- **AC/DC Current (A~, A-):** Measures current up to 10A.
- **Resistance (Ω):** Measures electrical resistance.
- **Continuity:** Tests for a complete circuit, indicated by an audible beep.
- **Diode:** Tests diodes for proper function.
- **Capacitance:** Measures capacitance values.
- **Frequency (Hz) & Duty Cycle (%):** Measures frequency and duty cycle of AC signals.
- **Non-Contact Voltage (NCV):** Detects AC voltage without direct contact. The buzzer will alarm and the LCD will display "---L" or "---H", with the indicator light showing green or red.
- **Live Wire Testing:** Identifies live and neutral wires.
- **Temperature ($^{\circ}\text{C}/^{\circ}\text{F}$):** Measures temperature using the K-Type thermocouple.

AUTO & MANUAL RANGE

Intuitive Operation without Complex Settings

TEST	MEASURING RANGE	ACCURACY
DC Voltage	60mV/600mV/6V/60V/600V	$\pm(0.5\%+3)$
AC Voltage	60mV/600mV/6V/60V/600V	$\pm(0.8\%+5)$
DC Current	600mA/6A/10A	$\pm(1.0\%+8)$
AC Current	600mA/6A/10A	$\pm(1.0\%+8)$
Frequency	10Hz-7MHz	$\pm(0.2\%+5)$
Capacitance	6nF/600nF/6uF/600uF/ 6mF/20mF	$\pm(2.5\%+20)$
Resistance	600 Ω /6k Ω /60k Ω /600k Ω / 6M Ω /60M Ω	$\pm(0.8\%+5)$
Temperature	-40 ~ 1000 $^{\circ}\text{C}$ / -40 ~ 1832 $^{\circ}\text{F}$	$\pm(1.0\%+3)$
Duty Cycle	10% ~ 90%	$\pm(2.6\%+7)$

The image demonstrates the multimeter's capability to measure temperature using the included K-Type thermocouple, with the display showing a temperature reading.

THOUGHTFUL DESIGN



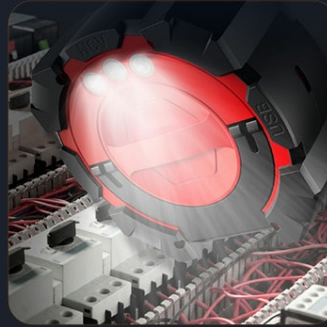
NCV Voltage Detection

A weak signal shows L and a green light, and a strong signal shows H and a red light



USB Rechargeable Battery

Built-in 1000mAh lithium battery for long battery life, and Type-C charging port for convenient charging



Flashlight Illumination

One-click lighting for assisting you in night work



Foldable Kickstand

Make the taking and recording measurements easy and effortless

This image illustrates the NCV function, showing the multimeter detecting voltage near an electrical outlet without direct contact.

Your browser does not support the video tag.

This official video from Neoteck US demonstrates the key functions and operation of the 6000 Counts TRMS Multimeter, including various measurement types and the auto-ranging feature.

7. MAINTENANCE

7.1 Battery Charging

Regularly charge the multimeter's internal lithium battery using the provided Type-C cable to ensure optimal performance. A full charge provides 10-15 hours of operation.

7.2 Cleaning

Clean the multimeter's casing with a damp cloth and mild detergent. Do not use abrasive cleaners or solvents. Ensure the device is powered off and disconnected from any power source before cleaning.

7.3 Storage

Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged (around 50%) to prolong its lifespan.

8. TROUBLESHOOTING

If you encounter issues with your Neoteck H5 Multimeter, consider the following common troubleshooting steps:

- **No Power/Display Issues:** Ensure the battery is sufficiently charged. Connect the multimeter to a Type-C charger and allow it to charge for at least 30 minutes before attempting to power it on again.
- **Inaccurate Readings:** Verify that the test leads are securely connected to the correct input jacks and that they are not damaged. Ensure you are in the appropriate measurement mode for the circuit being tested.
- **Continuity/Diode Test Not Working:** Confirm that the circuit or component is not powered. For continuity, ensure a complete circuit path.
- **NCV Not Detecting:** Ensure the NCV sensor is positioned close enough to the AC voltage source. The NCV function is designed for detection, not precise measurement.

If problems persist after attempting these steps, please contact Neoteck customer support for further assistance.

9. SPECIFICATIONS

Feature	Specification
Model	H5
Display Counts	6000 Counts
True RMS	Yes
Power Source	Built-in 1000mAh Lithium Battery
Charging Port	Type-C USB
DC Voltage Range	Up to 600V
DC Voltage Accuracy	$\pm(0.5\%+3)$
AC Voltage Range	Up to 600V
AC Voltage Accuracy	$\pm(0.8\%+5)$
DC/AC Current Range	Up to 10A
Resistance Range	Up to 60M Ω
Capacitance Range	Up to 20mF
Frequency Range	Up to 7MHz
Temperature Range	-40°C to 1000°C / -40°F to 1832°F
Safety Rating	CAT III 600V
Dimensions (L x W x H)	3.54 x 3.54 x 1.57 inches
Included Components	Multimeter, Power Cable, Test Leads, Temperature Probe

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Neoteck H5 Multimeter comes with an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper handling.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your Neoteck H5 Multimeter, please contact Neoteck customer support through their official website or the retailer where the product was purchased. Please have your model number (H5) and purchase details ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Open the live page

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