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GDSAFS D983FHFF

GDSAFS HT123 Smart Digital Multimeter User Manual

Model: D983FHFF

Introduction

This manual provides essential information for the safe and effective use of your GDSAFS HT123 Smart Digital Multimeter. Please read it thoroughly before operation and retain it for future reference.

The HT123 is an auto-ranging digital multimeter designed for fast and accurate measurement of AC/DC voltage, resistance, and continuity. It features non-contact voltage (NCV) testing, an LCD backlight display, and a built-in flashlight for enhanced visibility.

Safety Precautions

Always observe basic safety precautions when using electrical testing equipment to reduce the risk of fire, electric shock, or personal injury. This device is certified CAT II 600V, CE, and RoHS.

- Do not attempt to measure voltages or currents exceeding the specified maximum limits.
- Ensure test leads are in good condition and properly connected before each measurement.
- Do not use the multimeter if it appears damaged or is not operating correctly.
- Exercise extreme caution when working with live circuits.
- The product does not contain batteries. Purchase and install 2 AAA batteries separately according to polarity marks.

Package Contents

Verify that all items are present in the package:

- 1 x HT123 Smart Digital Multimeter
- 1 x Pair of Test Leads
- 1 x User Manual (English)

Product Overview

Familiarize yourself with the components of your HT123 Multimeter.



Figure 1: Instrument Panel Overview. This image displays the front and back of the HT123 multimeter, highlighting key features such as the induction area for NCV, indicator light, display, power key, Hold/NCV key, Backlight/Flashlight key, COM socket, Signal input socket, flashlight, battery cover, and protective cover.

- **Display:** Large LCD for clear readings.
- **Power Key:** Turns the device on/off.
- **Hold** / **NCV Key:** Toggles data hold and activates Non-Contact Voltage detection.
- **Backlight** / **Flashlight Key:** Controls display backlight and built-in flashlight.
- **COM Socket:** Common input for test leads (black).
- **INPUT Socket:** Input for test leads (red) for voltage, resistance, etc.
- **NCV Induction Area:** Top part of the meter for non-contact voltage detection.

Setup

Battery Installation

The HT123 Multimeter requires 2 AAA batteries (not included).

1. Remove the protective rubber sleeve from the multimeter.
2. Open the battery back cover.
3. Insert 2 AAA batteries into the battery compartment, ensuring correct polarity as marked.
4. Replace the battery cover and the protective rubber sleeve.

Initial Calibration

After battery installation:

1. Turn on the multimeter using the Power Key.
2. Insert the test leads into the COM (black) and INPUT (red) sockets according to the prompts.
3. Briefly touch the two ends of the test leads together to allow the multimeter to calibrate.

Operating Instructions

The HT123 features auto-ranging, simplifying measurements as it automatically selects the correct range.

Measuring AC/DC Voltage, Resistance, or Continuity

1. Ensure the multimeter is powered on.
2. Insert the black test lead into the COM socket and the red test lead into the INPUT socket.
3. Connect the test leads to both ends of the object you wish to measure. The multimeter will automatically detect the type of measurement (AC/DC voltage, resistance, or continuity) and display the reading.



Figure 2: Working Show. This image illustrates the HT123 multimeter performing various measurements: Home 220V AC voltage, Direct current voltage, Resistance measurement, Continuity, NCV (Non-Contact Voltage), and Neutral line and live line measurement.



Figure 3: Home AC Voltage Measurement. This image shows the HT123 multimeter connected to a wall outlet, displaying an AC voltage reading. The normal voltage range is 198V-240V, and a measured value of 220V indicates accurate measurement.

Non-Contact Voltage (NCV) Function

The NCV function allows for safe detection of AC voltage without direct contact with wires. Test leads are not required for this function.

1. Press the "Hold / NCV" key to activate the NCV mode.
2. Move the top part of the multimeter (NCV induction area) close to the conductor you suspect has AC voltage.
3. **Weak Electric Field:** If a weak electric field is detected, the display will show "---L", the backlight will turn on, and the buzzer will sound slowly.
4. **Strong Electric Field:** If a strong electric field is detected, the display will show "---H", the backlight will turn on, the buzzer will sound quickly, and the red indicator light will turn on.



Figure 4: Non-Contact AC Voltage Detection. This image demonstrates the NCV function, showing how the multimeter indicates the presence of AC voltage with visual and audible alerts. It illustrates the display and light indicators for both weak and strong electric fields.



Figure 5: Key Features and NCV Function. This image highlights several features of the HT123, including its 4000 counts display, AC/DC voltage measurement, resistance, continuity, data hold, auto-range capability, and the NCV function with visual indicators for low and high voltage detection.

Data Hold Function

To freeze the current reading on the display, press the "Hold / NCV" key briefly during a measurement. Press it again to release the hold and resume live readings.

Backlight and Flashlight

Press the "Backlight / Flashlight" key to turn on the LCD backlight for improved visibility in dim conditions. Press and hold the same key to activate the built-in flashlight.

Specifications

Feature	Specification

DC Voltage Range	0.8-600V (Max: 610V)
AC Voltage Range	0.8-600V (Max: 610V)
Resistance	600kΩ
Counts	2,000 Counts
NCV (Non-Contact Voltage)	Yes
Display with Gear Display	Yes
Data Hold	Yes
Backlight	Yes
Flashlight	Yes
Low Battery Indication	Yes
Auto Power-Off	Yes
Material	ABS
Power Supply	2 x 1.5V AAA Batteries (Not Included)
Item Size	122 x 61 x 29mm / 4.81 x 2.40 x 1.14in

Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the multimeter's casing. Do not use abrasive cleaners or solvents.
- **Storage:** Store the multimeter in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears to ensure accurate readings.
- **Test Leads:** Regularly inspect test leads for any signs of damage (cracks, frayed insulation). Replace damaged leads immediately.

Troubleshooting

Problem	Possible Cause	Solution
Multimeter does not turn on.	Dead or incorrectly installed batteries.	Check battery polarity or replace batteries.
Inaccurate readings.	Low battery; damaged test leads; incorrect connection.	Replace batteries; inspect/replace test leads; ensure proper connection.
NCV function not responding.	No AC voltage present; NCV function not activated.	Ensure AC voltage is present; press the NCV button to activate.
Display shows "OL" (Overload).	Measured value exceeds the multimeter's range.	Do not attempt to measure values beyond the specified limits.

Warranty and Support

For any questions or issues, please contact GDSAFS customer support. While specific warranty details are not provided in this manual, please refer to your purchase documentation or contact the seller for warranty information.

If you have any questions, please get in touch with us at any time, we will provide you with the best solution.

Manufacturer: GDSAFS

ASIN: B0DG91XP9M

Model Number: D983FHFF

You can visit the GDSAFS Store on Amazon for more information.

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