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## Jectse DT33D

# Jectse DT33D Mini Digital Multimeter User Manual

Model: DT33D

## 1. INTRODUCTION

The Jectse DT33D Mini Digital Multimeter is a portable, universal measuring instrument designed for various electrical tests. It features a clear digital display and is capable of measuring DC voltage, AC voltage, DC current, resistance, and performing continuity tests. This manual provides essential information for the safe and effective use of your multimeter.

## 2. SAFETY INFORMATION

Always adhere to basic safety precautions when using electrical testing equipment to prevent personal injury or damage to the meter or equipment under test.

- Do not apply voltage or current that exceeds the maximum specified limits for the meter.
- Exercise extreme caution when working with live circuits.
- Ensure the test leads are in good condition, without any cracks or breaks in the insulation.
- Always turn off power to the circuit and discharge high-voltage capacitors before measuring resistance or continuity.
- Replace the battery when the low battery indicator appears to ensure accurate readings.
- Do not operate the meter if it appears damaged or if the case is open.

## 3. PRODUCT OVERVIEW

The DT33D multimeter is designed for ease of use and reliability. It features a large LCD for clear readings, a rotary switch for function selection, and input jacks for test leads.



Figure 3.1: The Jectse DT33D Mini Digital Multimeter with its included red and black test leads. The device is red with a black rotary dial and a blue digital display.



Figure 3.2: A detailed front view of the DT33D multimeter, highlighting the digital display, function selector dial, and input terminals. The display shows '000' and the dial indicates various measurement ranges.

### Key Features:

- **Large Screen Display:** Provides clear and intuitive readings.
- **Flexible Kickstand:** Allows for convenient hands-free operation.
- **Secure Test Lead Insertion:** Ensures stable and reliable connections.
- **Quick Response:** Delivers fast measurement results.
- **Backlight Display:** For improved visibility in low-light conditions.



Figure 3.3: The DT33D multimeter shown with its integrated kickstand extended, allowing the device to stand upright for easier viewing during use.

## 4. SETUP

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### 4.1 Battery Installation

The DT33D multimeter requires one 9V (6F22) battery (not included) for operation.

1. Locate the battery compartment cover on the back of the multimeter.
2. Carefully slide or unscrew the cover to open the compartment.
3. Insert a new 9V battery, ensuring correct polarity (+ and -).
4. Replace the battery compartment cover and secure it.



Figure 4.1: The rear of the DT33D multimeter with the battery compartment cover removed, showing the battery connector for a 9V battery.

## 4.2 Connecting Test Leads

The multimeter comes with a pair of test leads (red and black).

- Insert the black test lead into the 'COM' (common) input jack.
- For most measurements (voltage, resistance, continuity, and low current), insert the red test lead into the 'VΩmA' input jack.
- For high current measurements (up to 10A), insert the red test lead into the '10A MAX' input jack.

## 5. OPERATING INSTRUCTIONS

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To operate the multimeter, select the desired function using the rotary switch and connect the test leads to the circuit or component being measured.

### 5.1 DC Voltage Measurement (V-)

Used for measuring direct current voltage in circuits.

1. Set the rotary switch to the desired DC Voltage (V-) range (e.g., 200mV, 2V, 20V, 200V, 500V).
2. Connect the red test lead to the positive (+) side of the circuit and the black test lead to the negative (-) side.

3. Read the voltage value on the display.



Figure 5.1: The DT33D multimeter in use, measuring the voltage of a car battery. The red test lead is connected to the positive terminal and the black lead to the negative terminal.

## 5.2 AC Voltage Measurement (V~)

Used for measuring alternating current voltage.

1. Set the rotary switch to the desired AC Voltage (V~) range (e.g., 200V, 500V).
2. Connect the test leads across the AC voltage source.
3. Read the voltage value on the display.

## 5.3 DC Current Measurement (A-)

Used for measuring direct current flowing through a circuit.

1. **Important:** Disconnect power to the circuit before connecting the multimeter in series.
2. Set the rotary switch to the desired DC Current (A-) range (e.g., 2000uA, 20mA, 200mA, 10A).
3. Insert the red test lead into the appropriate current input jack ('VQmA' for low current, '10A MAX' for high current).
4. Connect the multimeter in series with the circuit, ensuring the current flows through the meter.
5. Apply power to the circuit and read the current value on the display.

## 5.4 Resistance Measurement ( $\Omega$ )

Used for measuring the resistance of components.

1. **Important:** Ensure the component is isolated from power and discharged before measuring resistance.
2. Set the rotary switch to the desired Resistance ( $\Omega$ ) range (e.g., 200 $\Omega$ , 2k $\Omega$ , 20k $\Omega$ , 200k $\Omega$ , 2M $\Omega$ , 20M $\Omega$ ).
3. Connect the test leads across the component.
4. Read the resistance value on the display.



Figure 5.2: The DT33D multimeter being used to test components on a circuit board, demonstrating its application in electronics repair or diagnostics.

## 5.5 Continuity Test

Used to check for an open or closed circuit.

1. **Important:** Ensure the circuit is de-energized before performing a continuity test.
2. Set the rotary switch to the continuity ( $\text{♪}$ ) position.
3. Touch the test leads together; the meter should beep and display a low resistance value.
4. Connect the test leads across the circuit or component you wish to test.
5. If the circuit is continuous (closed), the meter will beep and display a low resistance. If it is open, no beep will sound, and the display will show 'OL' (Over Limit).

## 6. MAINTENANCE

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### 6.1 Cleaning

To maintain the accuracy and longevity of your multimeter, keep it clean.

- Wipe the case with a damp cloth and a mild detergent. Do not use abrasives or solvents.
- Ensure no moisture enters the meter's casing.

### 6.2 Battery Replacement

When the low battery indicator appears on the display, replace the 9V battery as described in Section 4.1. Failure to do so may result in inaccurate readings.

## 7. TROUBLESHOOTING

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If your multimeter is not functioning as expected, consider the following common issues:

- **No Display or Faint Display:** Check the battery. Replace if necessary.
- **Incorrect Readings:** Ensure the correct function and range are selected. Verify test lead connections. Check battery level.
- **'OL' (Over Limit) Display:** The measured value exceeds the selected range. Switch to a higher range or ensure the circuit is closed for continuity tests.
- **No Continuity Beep:** Ensure the circuit is de-energized. Check if the component is truly open.

If problems persist, contact customer support.

## 8. SPECIFICATIONS

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Parameter	Value
Item Type	Digital Multimeter
Product Material	Plastic
Battery Type	9V battery (6F22) (not included)
Input Impedance	About 10MΩ
Maximum Display	1999
Size	Approx. 130 x 73.5 x 35mm / 5.1 x 2.9 x 1.4in
Weight	242 Grams
Power Source	Battery Powered
Color	Red
DC Voltage Range	200mV-500V [± (0.5% + 2dgt)]
AC Voltage Range	200V-500V [± (1.2% + 10dgt)]
DC Current Range	2000uA-10A [± (1.0% + 2dgt)]
Resistance Range	200Ω-20MΩ [± (0.8% + 2dgt)]

## **9. PACKAGE CONTENTS**

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The following items are included in your Jectse DT33D Mini Digital Multimeter package:

- 1 x Jectse DT33D Mini Digital Multimeter
- 1 x Pair of Test Leads (Red and Black)
- 1 x Instruction Manual (this document)

## **10. WARRANTY AND SUPPORT**

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For warranty information or technical support regarding your Jectse DT33D Mini Digital Multimeter, please refer to the contact information provided by your retailer or visit the official Jectse website. Keep your purchase receipt for warranty claims.