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ETURBEV DT-927H

ETURBEV DT-927H True RMS Digital Multimeter User Manual

Model: DT-927H

1. Introduction

Thank you for choosing the ETURBEV DT-927H True RMS Digital Multimeter. This device is a high-precision, anti-burning, and backlit digital display meter designed for measuring current and voltage, among other electrical parameters. It features True RMS measurement capabilities for accurate readings of non-sinusoidal waveforms. Please read this manual thoroughly before operation to ensure safe and correct usage.

2. Safety Information

To prevent possible electrical shock, fire, or personal injury, please observe the following safety guidelines:

- Always ensure the multimeter is in good working condition before use.
- Do not apply voltage or current that exceeds the maximum rated values specified for the multimeter.
- Use caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Always connect the common (COM) test lead before connecting the live test lead. Disconnect the live test lead first.
- Ensure the function switch is in the correct position for the measurement being performed.
- Do not use the multimeter if the test leads are damaged or if the meter appears damaged.
- Replace the battery immediately when the low battery indicator appears to ensure accurate readings.
- Do not operate the multimeter in explosive gas, vapor, or dust environments.
- Adhere to local and national safety codes.

3. Product Overview

The DT-927H is an autoranging digital multimeter designed for various electrical measurements. Key features include a large backlit display, True RMS measurement, and anti-burning protection.

3.1 Components

- **LCD Display:** Shows measurement readings, units, and function indicators.

- **Function Dial:** Used to select the desired measurement function (e.g., Voltage, Current, Resistance).
- **Input Jacks:** Terminals for connecting test leads (COM, VΩmA, 10A).
- **Buttons:**
    - **RANGE:** Manual range selection (if not in auto-ranging mode).
    - **MAX/MIN:** Records maximum and minimum values.
    - **HOLD:** Freezes the current display reading.
    - **Backlight Button:** Activates/deactivates the display backlight.

3.2 Product Images



Figure 1: Front view of the ETURBEV DT-927H Digital Multimeter, showing the LCD display, function dial, and input jacks.



Figure 2: Angled view of the ETURBEV DT-927H Digital Multimeter, highlighting the ergonomic design and display.



Figure 3: Another angled view of the ETURBEV DT-927H Digital Multimeter, showing the side profile and input terminals.



Figure 4: Top-down angled view of the ETURBEV DT-927H Digital Multimeter, providing a clear look at the display and controls.

4. Setup

4.1 Battery Installation

The standard package does not include batteries. To install batteries:

1. Ensure the multimeter is turned OFF.
2. Locate the battery compartment cover on the back of the multimeter.
3. Unscrew the retaining screw(s) and remove the cover.
4. Insert the required batteries (typically 9V or AA, refer to the compartment label) observing correct polarity.
5. Replace the battery compartment cover and secure it with the screw(s).

4.2 Connecting Test Leads

Always connect the black test lead to the**COM** (Common) jack. Connect the red test lead to the appropriate input jack based on the measurement:

- For Voltage (V), Resistance (Ω), Capacitance (CAP), Temperature (Temp), Diode, Continuity, and small Current (mA/µA) measurements, connect the red lead to the **VΩmA** jack.
- For large Current (10A) measurements, connect the red lead to the**10A** jack.

5. Operating Instructions

5.1 Power On/Off

Rotate the function dial from the "OFF" position to any desired measurement function to power on the multimeter. To power off, rotate the dial back to the "OFF" position.

5.2 Measuring Voltage (AC/DC)

1. Connect the black test lead to **COM** and the red test lead to **VΩmA**.
2. Rotate the function dial to the **V~** (AC Voltage) or **V-** (DC Voltage) position. The multimeter will automatically select the range.
3. Connect the test leads in parallel to the circuit or component you wish to measure.
4. Read the voltage value on the LCD display.

5.3 Measuring Current (AC/DC)

Caution: Always connect the multimeter in series with the circuit when measuring current. Never connect it in parallel across a voltage source.

1. **For mA/µA:** Connect the black test lead to **COM** and the red test lead to **VΩmA**.
2. **For 10A:** Connect the black test lead to **COM** and the red test lead to **10A**.
3. Rotate the function dial to the appropriate current range (**mA~**, **µA~**, **10A~** for AC; **mA-**, **µA-**, **10A-** for DC).
4. Open the circuit and connect the test leads in series with the load.
5. Read the current value on the LCD display.

5.4 Measuring Resistance (Ω)

1. Connect the black test lead to **COM** and the red test lead to **VΩmA**.
2. Rotate the function dial to the **Ω** position.
3. Ensure the circuit or component is de-energized before measuring resistance.
4. Connect the test leads across the component.
5. Read the resistance value on the LCD display.

5.5 Other Functions

- **Capacitance (CAP):** Rotate the dial to **CAP**. Connect leads across the capacitor (ensure it's discharged).
- **Temperature (Temp):** Rotate the dial to **Temp °C/°F**. Use a K-type thermocouple (if included) and connect it to the appropriate jacks.
- **Non-Contact Voltage (NCV):** Rotate the dial to **NCV**. Bring the top of the multimeter near a live conductor to detect AC voltage without contact.
- **Live Wire Detection (Live):** Rotate the dial to **Live**. Use the red probe to touch the wire.
- **Diode Test / Continuity:** Rotate the dial to the diode/continuity symbol. Use the **SELECT** button (if available) to switch between functions.

6. Maintenance

6.1 Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Ensure the multimeter is off and disconnected from any circuit before cleaning.

6.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 4.1. Remove batteries if the multimeter will not be used for an extended period.

6.3 Fuse Replacement

If the current measurement function stops working, the fuse may be blown. To replace the fuse:

1. Ensure the multimeter is turned OFF and test leads are disconnected.
2. Open the battery compartment cover (and potentially the main back cover, depending on the model).
3. Carefully remove the blown fuse.
4. Replace it with a fuse of the exact same type and rating (e.g., F10A/600V for the 10A input, F600mA/600V for the mA/µA input). Using an incorrect fuse can damage the meter or pose a safety hazard.
5. Reassemble the multimeter securely.

6.4 Storage

Store the multimeter in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries if storing for long periods.

7. Troubleshooting

Problem	Possible Cause	Solution
No display or dim display	Dead or low batteries; incorrect battery installation.	Replace batteries; check battery polarity.
Incorrect readings	Incorrect function selected; poor test lead connection; low battery.	Verify function dial position; ensure leads are firmly connected; replace batteries.
Current measurement not working	Blown fuse.	Replace the fuse with the correct type and rating (refer to Section 6.3).
"OL" or "OVER" displayed	Measurement exceeds the selected range or maximum input.	Switch to a higher range (if in manual range mode) or ensure the input is within the meter's specifications.

8. Specifications

Parameter	Value
Model Number	DT-927H
Display Type	Digital Display
True RMS	Yes
Anti-Burning Protection	Yes
Backlight	Yes
Safety Rating	CAT III 600V (as indicated on product image)

Parameter	Value
Item Weight	50 Grams
Country Of Origin	China

Note: Detailed electrical specifications (e.g., voltage/current ranges, accuracy) are typically found in a full product datasheet. Please refer to the product packaging or manufacturer's website for comprehensive specifications.

9. Warranty and Support

Warranty information and customer support details for the ETURBEV DT-927H Digital Multimeter are not provided in this document. Please refer to the product packaging, purchase receipt, or contact the retailer/manufacturer directly for warranty claims and technical assistance.

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