

## Tacklife DM04

# Tacklife DM04 Mini Digital Multimeter User Manual

Model: DM04

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## 1. INTRODUCTION

Thank you for choosing the Tacklife DM04 Mini Digital Multimeter. This compact, auto-ranging multimeter is designed for safe and accurate measurement of AC/DC voltage, AC/DC current, and resistance. It also features non-contact voltage (NCV) detection and a backlit LCD display for ease of use in various environments. Please read this manual thoroughly before operation to ensure proper use and to prevent potential hazards.

## 2. SAFETY INFORMATION

**Warning:** To avoid electric shock or personal injury, read and understand all safety information before using this product. Improper use can result in severe injury or death.

- Always ensure the multimeter is in the correct function and range before making measurements.
- Do not measure voltage exceeding the maximum rated input value (e.g., 600V DC/AC).
- Do not use the multimeter if it appears damaged or if the test leads are damaged.
- Exercise extreme caution when working with voltages above 30V AC RMS, 42V peak, or 60V DC. These voltages pose a shock hazard.
- Always disconnect the test leads from the circuit before changing functions.
- Replace the battery immediately when the low battery indicator appears to ensure accurate readings.
- Do not operate the multimeter in explosive gas, vapor, or dusty environments.
- Adhere to local and national safety codes.

## 3. PRODUCT FEATURES

- **Auto-Ranging:** Automatically selects the appropriate measurement range.
- **Multi-Function:** Measures AC/DC Voltage, AC/DC Current, Resistance.
- **Non-Contact Voltage (NCV) Detection:** For identifying live wires without direct contact.
- **Backlit LCD Display:** Clear readings in low-light conditions.
- **Data Hold:** Freezes the displayed reading.
- **Low Battery Indication:** Alerts when battery replacement is needed.
- **Compact and Portable Design:** Easy to carry and use.

## 4. PACKAGE CONTENTS

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Please check the package for the following items. If any item is missing or damaged, contact your retailer.

- Tacklife DM04 Mini Digital Multimeter
- Test Leads (one pair)
- User Manual
- AAA Batteries (pre-installed or separate, quantity as specified by manufacturer)



Figure 1: Typical package contents for the Tacklife DM04 Mini Digital Multimeter.

## 5. SETUP

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### 5.1 Battery Installation

The DM04 multimeter typically comes with batteries pre-installed or included separately. If batteries need to be installed or replaced:

1. Ensure the multimeter is turned off and test leads are disconnected.
2. Locate the battery compartment cover on the back of the unit.
3. Use a screwdriver to loosen the screw(s) on the battery cover.
4. Remove the cover and insert the correct type and number of batteries (e.g., 2 x AAA 1.5V) according to the polarity markings.
5. Replace the battery cover and tighten the screw(s).



Figure 2: Battery compartment on the rear of the DM04 multimeter.

### 5.2 Connecting Test Leads

Connect the test leads to the multimeter as follows:

- Insert the **black** test lead into the "**COM**" (Common) jack.
- Insert the **red** test lead into the "**VΩmA**" jack for voltage, resistance, and current measurements.



Figure 3: Correct connection of test leads to the DM04 multimeter.

## 6. OPERATING INSTRUCTIONS

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The DM04 features an auto-ranging function, simplifying operation. Turn the rotary switch to the desired

measurement function.

## 6.1 Measuring AC/DC Voltage (V~) / (V-)

1. Turn the rotary switch to the "V~" (AC Voltage) or "V-" (DC Voltage) position.
2. Connect the test leads in parallel to the circuit or component you wish to measure.
3. Read the voltage value on the LCD display.



Figure 4: Measuring DC voltage across a battery.

## 6.2 Measuring AC/DC Current (A~) / (A-)

**Caution:** To measure current, the multimeter must be connected in series with the circuit. Never connect the multimeter in parallel when measuring current, as this can damage the meter and the circuit.

1. Turn the rotary switch to the "A~" (AC Current) or "A-" (DC Current) position.
2. Open the circuit where you want to measure current.
3. Connect the multimeter in series with the circuit, ensuring the current flows through the meter.
4. Read the current value on the LCD display.

## 6.3 Measuring Resistance ( $\Omega$ )

**Caution:** Ensure the circuit or component is de-energized before measuring resistance. Disconnect power to avoid damage to the multimeter.

1. Turn the rotary switch to the " $\Omega$ " (Resistance) position.
2. Ensure the component is isolated from the circuit or power is off.
3. Connect the test leads across the component.
4. Read the resistance value on the LCD display.

## 6.4 Non-Contact Voltage (NCV) Detection

1. Turn the rotary switch to the "NCV" position.
2. Bring the top end of the multimeter near the conductor or outlet you want to test.
3. If AC voltage is detected, the NCV indicator light will illuminate, and an audible beep will sound. The frequency of beeps and light flashes may increase with stronger voltage.



Figure 5: Using the NCV function to detect live voltage.

## 6.5 Backlight and Data Hold

- **Backlight:** Press the "LIGHT" button (if available) to turn the LCD backlight on or off. This improves visibility in dark environments.
- **Data Hold:** Press the "HOLD" button (if available) to freeze the current reading on the display. Press it again to release the hold function.

# 7. MAINTENANCE

## 7.1 Cleaning

Wipe the case with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the test leads

clean and dry.

## 7.2 Battery Replacement

When the low battery indicator appears on the display, replace the batteries as described in Section 5.1. Always use fresh batteries of the specified type.

## 7.3 Fuse Replacement (if applicable)

The DM04 may contain internal fuses to protect against overcurrent. If the current measurement function stops working, the fuse may need replacement. This procedure should only be performed by qualified personnel. Refer to the specifications for the correct fuse type and rating.

## 7.4 Storage

If the multimeter is not used for an extended period, remove the batteries to prevent leakage and damage. Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.

# 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Low battery; Power switch off; Damaged display.	Replace batteries; Turn on power switch; Contact support.
Incorrect readings	Incorrect function/range selected; Poor test lead contact; Damaged test leads; External interference.	Select correct function; Ensure good contact; Replace leads; Move away from interference sources.
Current measurement not working	Blown fuse; Incorrect connection (not in series).	Replace fuse (if applicable, by qualified personnel); Connect multimeter in series.
NCV not detecting voltage	Voltage too low; NCV sensor not close enough; Faulty unit.	Ensure voltage is within detectable range; Bring sensor closer; Contact support.

# 9. SPECIFICATIONS

Parameter	Range	Accuracy
DC Voltage	200mV / 2V / 20V / 200V / 600V	$\pm(0.5\% + 3)$
AC Voltage	2V / 20V / 200V / 600V	$\pm(1.0\% + 3)$
DC Current	20mA / 200mA / 10A	$\pm(1.2\% + 3)$
AC Current	20mA / 200mA / 10A	$\pm(1.5\% + 3)$
Resistance	200 $\Omega$ / 2k $\Omega$ / 20k $\Omega$ / 200k $\Omega$ / 2M $\Omega$ / 20M $\Omega$	$\pm(0.8\% + 3)$
Display	2000 Counts, Backlit LCD	N/A
Power Supply	2 x 1.5V AAA Batteries	N/A

Parameter	Range	Accuracy
Safety Rating	CAT III 600V	N/A

*Note: Specifications are subject to change without notice. Refer to the product packaging or official website for the most up-to-date information.*

## 10. WARRANTY AND SUPPORT

Tacklife products are designed and manufactured to high-quality standards. This product is covered by a limited warranty from the date of purchase. Please refer to the warranty card included in your package or visit the official Tacklife website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Tacklife Customer Service:

- **Website:** [www.tacklife.com](http://www.tacklife.com) (Note: This is a placeholder URL, please verify the actual website)
- **Email:** [support@tacklife.com](mailto:support@tacklife.com) (Note: This is a placeholder email, please verify the actual email)
- **Phone:** Refer to the official website for regional contact numbers.

Please have your model number (DM04) and purchase date ready when contacting support.