Estink 663862279658

Digital Clamp Multimeter User Manual

Model: 663862279658 | Brand: Estink

1. Introduction

This manual provides essential information for the safe and effective operation of your Estink Digital Clamp Multimeter. This device is designed for measuring various electrical parameters including AC/DC Voltage, AC Current, Resistance, and for Diode and Continuity testing. Its clamp design allows for non-contact AC current measurement, enhancing safety and convenience.

Please read this manual thoroughly before using the multimeter and keep it for future reference.

Figure 1.1: Estink Digital Clamp Multimeter and included test leads.

2. Safety Information

WARNING: To avoid possible electric shock, fire, or personal injury, please read all safety information before you use the product. Improper use of this meter can cause damage, shock, or injury.

- Always ensure the meter is in good working condition before use. Inspect the test leads for any damage.
- Do not apply voltage or current that exceeds the maximum rated input for the meter.
- Use extreme caution when working with live electrical circuits.
- Do not operate the meter if it appears damaged or if the battery cover is not properly closed.
- When measuring AC current using the clamp, ensure no other wires are within the clamp jaw to avoid inaccurate readings.
- Always disconnect the test leads from the circuit and the meter before opening the battery compartment.
- Adhere to all local and national safety codes.

3. Product Components

The package typically includes the following items:

- 1 x Estink Digital Clamp Multimeter
- 1 x Pair of Test Leads (Red and Black)
- 1 x User Manual (this document)

Figure 3.1: Typical contents included with the multimeter.

3.1. Meter Layout

Figure 3.2: Detailed view of the multimeter's display, function dial, and input terminals.

The multimeter features a clear LCD display, a rotary function switch, and input jacks for test leads. The clamp jaw is located at the top for non-contact current measurements.

4. Setup

4.1. Battery Installation

The multimeter requires batteries for operation (not included in some packages). To install or replace batteries:

1. Ensure the meter is turned OFF and disconnect any test leads.
2. Locate the battery compartment cover on the back of the meter.
3. Unscrew the retaining screw and remove the cover.
4. Insert the batteries, observing correct polarity (+ and -).
5. Replace the battery cover and secure it with the screw.

Figure 4.1: View of the battery compartment with the cover removed.

4.2. Connecting Test Leads

For most measurements (voltage, resistance, diode, continuity), the test leads must be connected:

- Insert the black test lead into the "COM" (common) input jack.
- Insert the red test lead into the "VΩ+" input jack.

Figure 4.2: Test leads properly connected to the multimeter.

5. Operating Instructions

Before taking any measurements, ensure the meter is set to the correct function and range for the parameter you intend to measure.

5.1. Power On/Off

Rotate the central dial from the "OFF" position to any desired measurement function to turn the meter ON. To turn OFF, rotate the dial back to the "OFF" position.

5.2. AC Current Measurement (Clamp Function)

This meter allows for non-contact measurement of AC current using the clamp jaw.

1. Rotate the function dial to the "20A~" or "200A~" range for AC current.
2. Open the clamp jaw by pressing the trigger.
3. Enclose only **one single conductor** of the circuit within the clamp jaw. Do not clamp around multiple conductors

(e.g., a power cord with both live and neutral wires) as this will result in a zero reading.

4. Read the AC current value on the LCD display.

Figure 5.1: The clamp jaw mechanism for non-contact current measurement.

5.3. Voltage Measurement (AC/DC)

To measure voltage:

1. Connect the test leads as described in Section 4.2.
2. Rotate the function dial to the appropriate AC Voltage ("450V~" or "600V~") or DC Voltage ("600V=") range.
3. Carefully touch the red test probe to the positive side of the circuit and the black test probe to the negative side (for DC) or across the points where you want to measure voltage (for AC).
4. Read the voltage value on the LCD display.

5.4. Resistance Measurement

To measure resistance:

1. Connect the test leads as described in Section 4.2.
2. Ensure the circuit or component is **de-energized** before measuring resistance.
3. Rotate the function dial to the "200KΩ" range.
4. Touch the test probes across the component or circuit you wish to measure.
5. Read the resistance value on the LCD display.

5.5. Diode and Continuity Test

To perform diode or continuity tests:

1. Connect the test leads as described in Section 4.2.
2. Ensure the circuit or component is **de-energized**.
3. Rotate the function dial to the Diode/Continuity symbol (•))).
4. For Diode Test: Touch the red probe to the anode and the black probe to the cathode of the diode. The display will show the forward voltage drop. Reverse the probes to check for open circuit.
5. For Continuity Test: Touch the probes across the circuit or component. If there is continuity (low resistance), the meter will emit an audible beep.

5.6. Data Hold Function

Press the "DATA HOLD" button to freeze the current reading on the display. Press it again to release the hold and resume live readings.

Figure 5.2: The multimeter in use, displaying a reading.

6. Maintenance

6.1. Cleaning

Wipe the meter's casing with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the display clean and dry.

6.2. Battery Replacement

Replace batteries when the low battery indicator appears on the display or if the meter does not power on. Refer to Section 4.1 for battery installation instructions.

6.3. Storage

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

7. Troubleshooting

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity or replace batteries.
No reading or "OL" (Overload) displayed.	Incorrect function/range selected; open circuit; measurement exceeds range.	Select appropriate range; check circuit continuity; ensure measurement is within meter's capabilities.
Inaccurate AC current reading.	Multiple conductors within clamp jaw; external magnetic fields.	Ensure only a single conductor is clamped; move away from strong magnetic fields.
Display shows "HV" or similar.	High voltage detected.	Exercise extreme caution. Disconnect immediately if voltage exceeds safe limits.

If you encounter issues not listed here, or if troubleshooting steps do not resolve the problem, please contact customer support.

8. Specifications

Parameter	Value
Brand	Estink
Model Number	663862279658
Measurement Type	Voltmeter, Multimeter
Color	Black
Style	Digital
Power Source	Electric (Battery Operated)
Package Dimensions	6.61 x 5.2 x 1.46 inches; 4.16 ounces
Date First Available	October 27, 2017

Note: Specifications are subject to change without notice for product improvement.

Figure 8.1: Approximate dimensions of the multimeter.

9. Warranty and Support

9.1. Warranty Information

Specific warranty terms and conditions for the Estink Digital Clamp Multimeter are provided by the seller or manufacturer at the time of purchase. Please refer to your purchase documentation or contact the seller directly for detailed warranty information.

9.2. Customer Support

For technical assistance, troubleshooting, or inquiries regarding your Estink Digital Clamp Multimeter, please contact the seller through the platform where the product was purchased. You may also visit the official Estink brand store for additional resources or contact information, if available.

Estink Brand Store: https://www.amazon.com/stores/Following/page/1B5C3FE3-D1EF-4C27-A377-591D5F47D8A2