

Fdit A6243L

Fdit A6243L Digital Capacitance Inductance Meter User Manual

Model: A6243L

1. OVERVIEW

The Fdit A6243L is a portable digital meter designed for measuring capacitance and inductance. It features a compact, handheld design with a backlit LCD display for clear readings in various lighting conditions. This device is suitable for digital analysis, capacitor selection, unknown capacitor measurement, matching capacitors, and cable capacitance measurement.

Key Features:

- **Digital Display:** Equipped with a backlit LCD, providing a maximum display of 1999 for easy and accurate data reading.
- **Data Retention:** Includes a HOLD function to freeze the displayed measurement, and a manual adjustment knob for zeroing.
- **Portability:** Lightweight and compact structure with a safety cover, making it easy to use and transport.
- **Low Power Consumption:** CE certified and powered by a 9V battery (not included).



Image 1.1: Overview of the Fdit A6243L meter highlighting its key features and compact design.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. Failure to follow these instructions may result in electric shock, fire, or personal injury.

- Always ensure the device is turned off before connecting or disconnecting test leads.
- Do not attempt to measure circuits with voltage exceeding the maximum specified input (MAX 36VDC for CX/LX terminals).
- 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.
- Keep the device away from water and extreme temperatures.

3. PRODUCT COMPONENTS

Familiarize yourself with the main parts of your A6243L meter:

- **LCD Display:** Shows measurement values and indicators.
- **Function Dial:** Used to select measurement ranges for capacitance (CX) and inductance (LX).
- **HOLD Button:** Freezes the current display reading.
- **Backlight Button:** Activates or deactivates the display backlight.
- **Zero Adjustment Button:** Used to zero the display before measurement.
- **Input Jacks (CX/LX):** Terminals for connecting test leads for capacitance and inductance measurements.
- **Kickstand:** Allows the meter to stand upright for easier viewing.



Image 3.1: Angled view of the Fdit A6243L meter with its kickstand.



Image 3.2: Close-up of the LCD display and control buttons.

4. SETUP

4.1 Battery Installation

1. Ensure the meter is turned off.
2. Locate the battery compartment on the back of the meter.
3. Open the battery cover.
4. Insert a new 9V battery, observing the correct polarity.
5. Close the battery cover securely.



Image 4.1: Back view of the meter, indicating the battery compartment.

4.2 Connecting Test Leads

Connect the red and black test leads to the appropriate CX/LX input jacks on the front of the meter. Ensure a firm connection.



Image 4.2: Front view of the meter with test leads connected.

5. OPERATION

5.1 Powering On/Off

Rotate the function dial from the 'OFF' position to any measurement range to turn the meter on. Rotate it back to 'OFF' to power off the device.

5.2 Zero Adjustment

Before taking a measurement, especially for small values, it is recommended to zero the meter. With the test leads open (not connected to any component), press the 'ZERO' button (often integrated with the HOLD button or a separate small button near the dial) to clear any residual readings.

5.3 Measuring Capacitance (CX)

1. Turn the function dial to the desired capacitance range (e.g., 200pF, 2nF, 20nF, 200nF, 2uF, 20uF, 200uF, 2000uF). Start with a higher range if the capacitance value is unknown.
2. Ensure the capacitor to be measured is fully discharged before connecting the test leads.
3. Connect the test leads to the terminals of the capacitor.
4. Read the capacitance value displayed on the LCD. Adjust the range if necessary for better resolution.

5.4 Measuring Inductance (LX)

1. Turn the function dial to the desired inductance range (e.g., 2mH, 20mH, 200mH, 2H, 20H). Start with a higher range if the inductance value is unknown.
2. Connect the test leads to the terminals of the inductor.
3. Read the inductance value displayed on the LCD. Adjust the range if necessary for better resolution.

5.5 Data Hold Function

Press the 'HOLD' button to freeze the current reading on the display. Press it again to release the hold and resume live measurements.

5.6 Backlight Function

Press the backlight button (often marked with an asterisk or light bulb icon) to turn the LCD backlight on or off, improving visibility in low-light conditions.

6. MAINTENANCE

6.1 Cleaning

Wipe the meter with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device.

6.2 Storage

When not in use for extended periods, remove the battery to prevent leakage. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

7.1 No Display or Faint Display

- Check if the battery is correctly installed and has sufficient charge. Replace the 9V battery if necessary.
- Ensure the function dial is not in the 'OFF' position.

7.2 Inaccurate Readings

- Perform a zero adjustment before measurement.
- Ensure test leads are properly connected and not damaged.
- Verify that the correct measurement range is selected for the component.
- For capacitance, ensure the component is fully discharged before testing.

7.3 Meter Does Not Respond

- Turn the meter off and then on again.
- Replace the battery.

8. SPECIFICATIONS

Specification	Value
Model	A6243L
Brand	Fdit
Product Dimensions (L x W x H)	10 x 10 x 10 millimeters (approx. 1 x 1 x 1 cm)
Item Weight	254 Grams
Power Source	9V Battery (not included)
Maximum Display	1999
Capacitance Ranges	200pF, 2nF, 20nF, 200nF, 2uF, 20uF, 200uF, 2000uF
Inductance Ranges	2mH, 20mH, 200mH, 2H, 20H
Manufacturer Reference	Fditt0k9gxcs3i221-11
Country of Origin	China



Image 8.1: Physical dimensions of the Fdit A6243L meter.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer or manufacturer's official website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact Fdit customer service through their official channels.

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