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Pro'sKit MT-5110

Pro'sKit MT-5110 Capacitance Meter User Manual

Model: MT-5110

1. INTRODUCTION

This user manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of the Pro'sKit MT-5110 Capacitance Meter. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. SAFETY INFORMATION

Always observe safety precautions when operating electrical testing equipment. Failure to do so may result in injury or damage to the meter.

- Ensure the meter is used within its specified voltage and current limits.
- Do not attempt to measure capacitance on live circuits.
- Always discharge capacitors before testing to prevent damage to the meter and potential shock hazards.
- Input overload protection is provided, but extreme overloads should be avoided.
- Keep the device away from strong magnetic fields, although measurements are possible even under such conditions, optimal performance is achieved in a stable environment.

3. PRODUCT OVERVIEW

The Pro'sKit MT-5110 is a compact and lightweight digital capacitance meter designed for accurate measurements. It features an LCD display for clear readout and low power consumption.

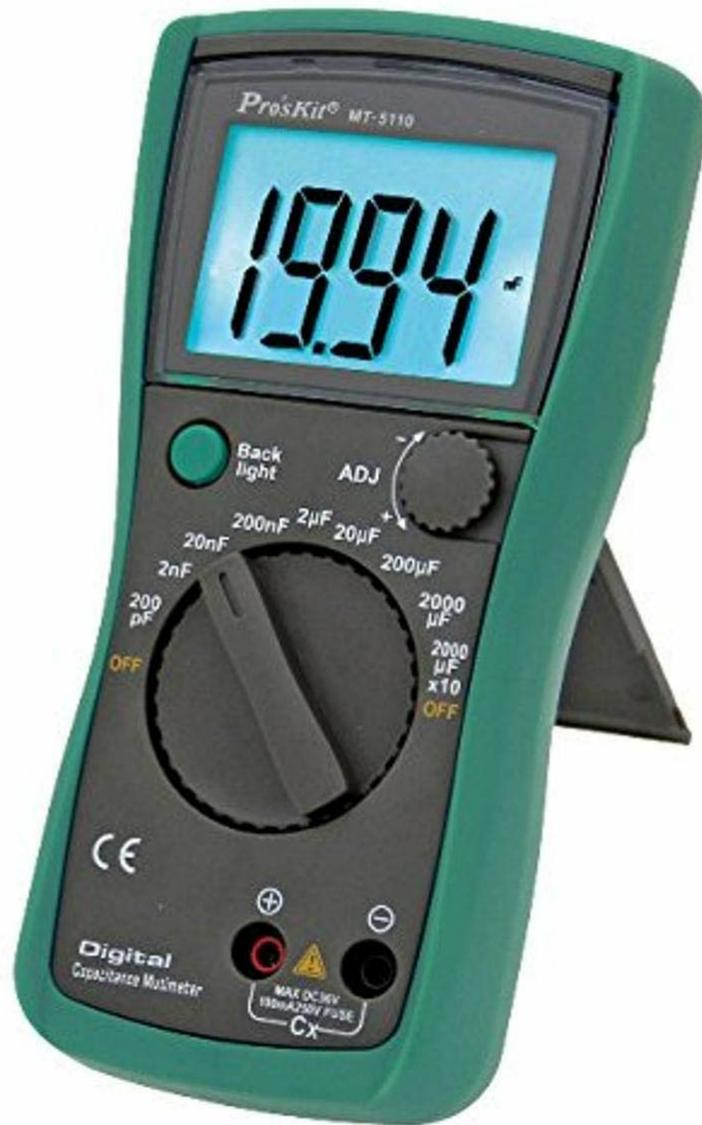


Figure 3.1: Front view of the Pro'sKit MT-5110 Capacitance Meter, showing the LCD display, rotary switch, input jacks, and backlight/adjustment buttons.

3.1. Key Features

- High measuring accuracy.
- Measurements possible even under a strong magnetic field.
- Input overload protection.
- LCD display for low power consumption and clear readout.
- Light-weight and compact construction.
- Low battery condition indicated on the LCD display.

3.2. Package Contents

- 1 x Pro'sKit MT-5110 Capacitance Meter
- 1 x Set of Test Leads

4. SETUP

4.1. Battery Installation

The Pro'sKit MT-5110 requires one 9V battery for operation.

1. Locate the battery compartment cover on the back of the meter.
2. Use a screwdriver to open the battery compartment.
3. Insert a new 9V battery, observing the correct polarity (+/-).
4. Replace the battery compartment cover and secure it.

4.2. Connecting Test Leads

Connect the provided test leads to the input jacks on the meter. The red lead typically connects to the positive (+) or 'Cx' jack, and the black lead to the common (-) jack.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Turn the rotary switch to any capacitance range to power on the meter. To power off, turn the rotary switch to the "OFF" position.

5.2. Capacitance Measurement

1. **Discharge the capacitor:** Before connecting, ensure the capacitor to be measured is fully discharged. This is crucial for safety and to prevent damage to the meter.
2. **Select Range:** Turn the rotary switch to the appropriate capacitance range (e.g., 200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2000μF). If the capacitance value is unknown, start with the highest range and decrease as necessary until a stable reading is obtained.
3. **Connect Leads:** Connect the test leads to the capacitor terminals.
4. **Read Measurement:** The capacitance value will be displayed on the LCD screen.
5. **Backlight:** Press the "Backlight" button to illuminate the display in low-light conditions.
6. **Adjustment (ADJ):** Use the "ADJ" knob to fine-tune the zero point for precise measurements, especially on lower ranges.

5.3. Low Battery Indication

When the battery voltage drops below the operational level, a low battery indicator will appear on the LCD display. Replace the 9V battery promptly to ensure accurate readings.

6. MAINTENANCE

6.1. Cleaning

Wipe the meter with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the meter is dry before storage or next use.

6.2. Battery Replacement

Refer to Section 4.1 for instructions on replacing the 9V battery. Always dispose of used batteries responsibly.

6.3. 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

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed battery.	Check battery polarity or replace the 9V battery.
Inaccurate readings.	Incorrect range selected; capacitor not fully discharged; strong magnetic interference; low battery.	Select appropriate range; ensure capacitor is discharged; move away from strong magnetic fields; replace battery.
Display shows "OL" or "1".	Overload or open circuit.	Select a higher range or check if the capacitor is open.

8. SPECIFICATIONS

- **Model:** MT-5110
- **Brand:** Pro'sKit
- **Product Dimensions:** 7.17 x 3.54 x 1.81 inches
- **Item Weight:** 0.01 Ounces
- **Power Source:** Battery Powered (1 x 9V battery required)
- **Display:** LCD
- **Color:** Green
- **Country of Origin:** Taiwan
- **Capacitance Ranges:** 200pF, 2nF, 20nF, 200nF, 2 μ F, 20 μ F, 200 μ F, 2000 μ F

9. WARRANTY AND SUPPORT

Specific warranty information for the Pro'sKit MT-5110 Capacitance Meter is not provided in this manual. For warranty details, technical support, or service inquiries, please contact Pro'sKit customer service or refer to the official Pro'sKit website.

You may also visit the [Pro'sKit Store on Amazon](#) for additional product information and support resources.