

## **GOLDCHAMP GCUS-36D**

# **GOLDCHAMP GCUS-36D Capacitance Meter Digital Multimeter User Manual**

Model: GCUS-36D

## **1. INTRODUCTION**

This manual provides detailed instructions for the safe and effective use of your GOLDCHAMP GCUS-36D Capacitance Meter Digital Multimeter. This device is designed for measuring capacitance across a wide range, from 200pF to 20mF. It features a large LCD display with backlight, data hold function, and a convenient foldable stand for ease of use.

The GOLDCHAMP GCUS-36D is a manual range capacitance meter suitable for various applications including home electrical repair, laboratory work, and electronics engineering tasks.

## **2. PACKAGE CONTENTS**

Verify that all items are present and in good condition upon unpacking. The package should contain the following:

- 1 x GOLDCHAMP GCUS-36D Capacitance Meter Digital Multimeter
- 1 x Pair of Test Leads (Red and Black)
- 1 x 9V Battery
- 1 x Small Screwdriver (for battery compartment)
- 1 x User Manual



Figure 2.1: Contents of the GOLDCHAMP GCUS-36D package, including the multimeter, test leads, 9V battery, and screwdriver.

## 3. SETUP

### 3.1 Battery Installation

1. Locate the battery compartment on the back of the multimeter.
2. Use the provided screwdriver to loosen the screw securing the battery cover.
3. Remove the battery cover.
4. Connect the 9V battery to the battery clips, ensuring correct polarity.
5. Place the battery inside the compartment and replace the cover, securing it with the screw.

## 9V Battery, With Stand Mount



Figure 3.1: Rear view of the multimeter, illustrating the battery compartment and the integrated foldable stand.

### 3.2 Connecting Test Leads

1. Insert the black test lead into the 'Cx-' input jack.
2. Insert the red test lead into the 'Cx+' input jack.
3. Ensure connections are firm before proceeding with measurements.

## 4. OPERATING INSTRUCTIONS

### 4.1 Multimeter Layout



Figure 4.1: Front panel of the multimeter, highlighting the LCD display, function switch, ZERO button, Data-Hold button, Backlight button, and input jacks.

## 4.2 Power On/Off

Rotate the Function Switch from 'OFF' to any desired measurement range to power on the device. To power off, rotate the Function Switch back to 'OFF'.

## 4.3 Capacitance Measurement

1. Rotate the Function Switch to the desired capacitance range (e.g., 200pF, 20nF, 2µF, 200µF, 20mF).
2. Press the 'ZERO' button to clear any residual capacitance from the test leads.
3. Connect the test leads to the capacitor you wish to measure.
4. Read the capacitance value on the LCD display.

## Test Range:

200pF/2000pF/20nF/200nF/2uF/20uF/200uF/2000uF/20mF

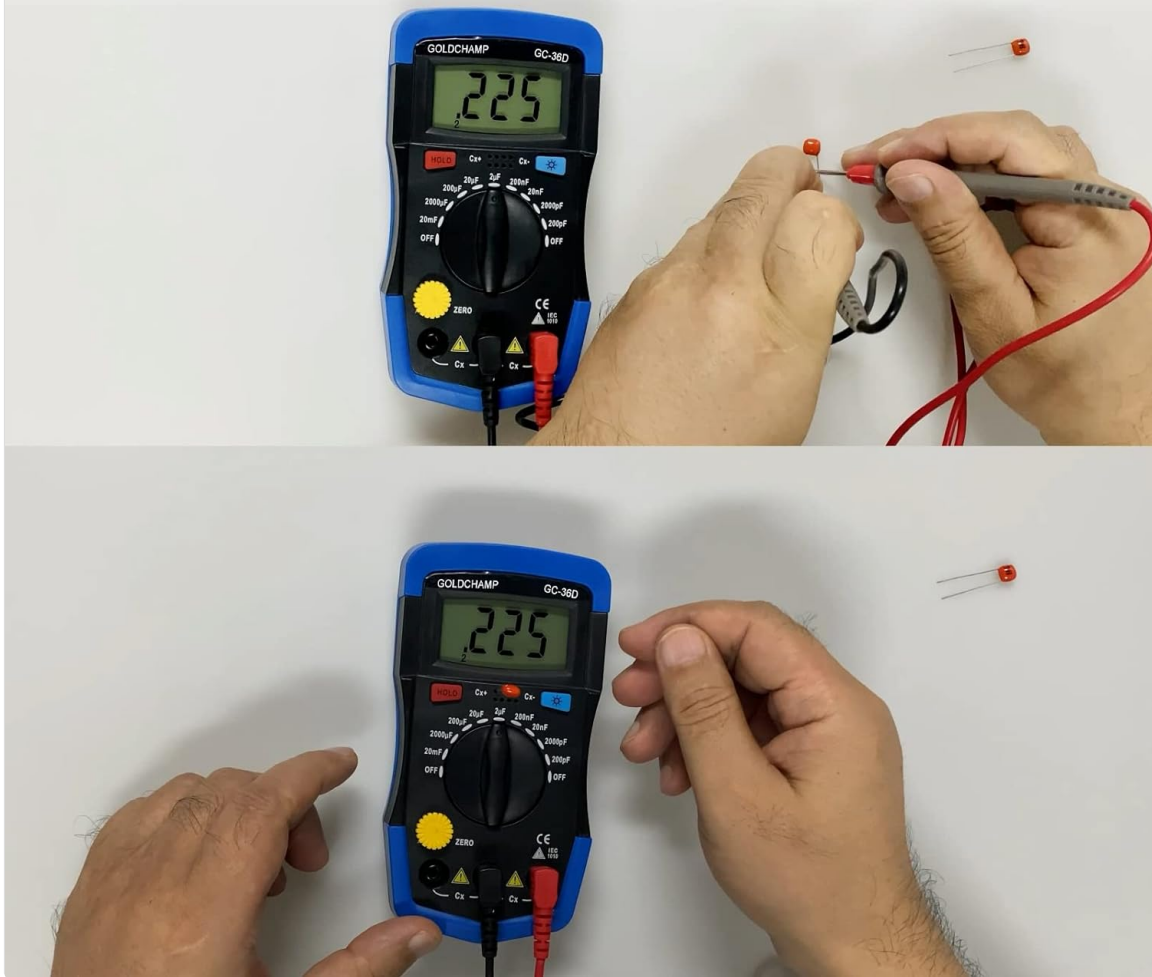


Figure 4.2: The multimeter actively measuring the capacitance of a component, demonstrating the test lead connection and display reading.

### 4.4 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 readings.

### 4.5 Backlight Function

Press the 'Backlight' button to illuminate the LCD display for improved visibility in low-light conditions. Press it again to turn off the backlight.





Figure 4.3: The multimeter's display with the backlight activated, showing enhanced readability in a darker environment.

## 5. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	GOLDCHAMP
Model Number	GCUS-36D
Measurement Type	Capacitance Meter
Capacitance Range	200pF/2000pF/20nF/200nF/2uF/20uF/200uF/2000uF/20mF
Accuracy (200pF-200uF)	±0.5%
Accuracy (2000uF)	±2.0%
Accuracy (20mF)	±4.0%

Feature	Specification
Display	Large LCD, 1999 Counts
Power Source	1 x 9V Battery (included)
Item Weight	200 Grams
Parcel Dimensions	16 x 11.61 x 4.7 cm
Special Features	ZERO setting, Backlight, Data-Hold, Foldable Stand

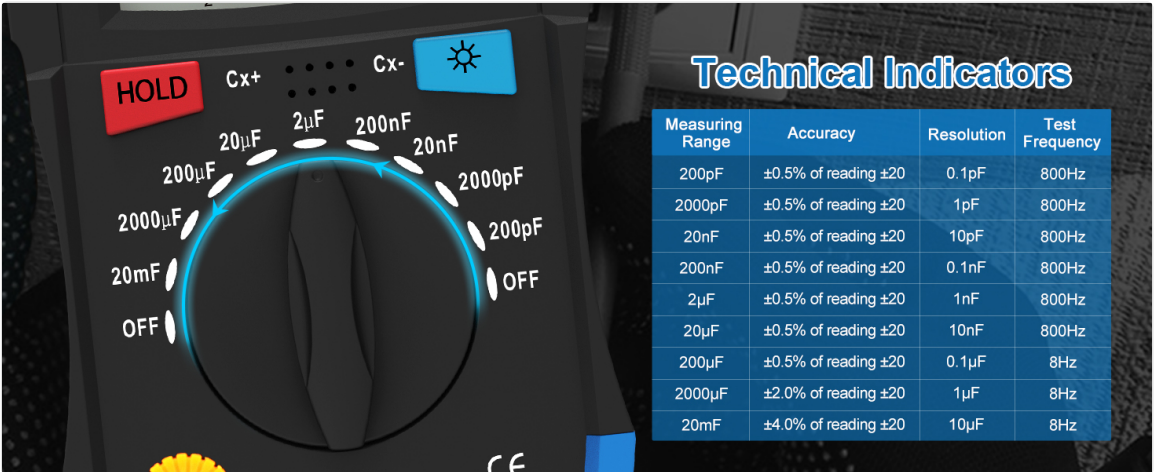


Figure 5.1: Detailed technical indicators for the GOLDCHAMP GCUS-36D, including measurement ranges, accuracy, resolution, and test frequency.

6. MAINTENANCE

6.1 Battery Replacement

When the battery low indicator appears on the display, replace the 9V battery promptly to ensure accurate readings. Follow the battery installation steps in Section 3.1.



Figure 6.1: The LCD display indicating a low battery status, prompting replacement.

## 6.2 Cleaning

Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.

## 6.3 Storage

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

# 7. TROUBLESHOOTING

- **No Display/Faint Display:** Check battery level and replace if necessary. Ensure the battery is installed correctly.
- **Incorrect Readings:** Verify the Function Switch is set to the correct range for the measurement. Ensure test leads are properly connected and making good contact with the component. Press the 'ZERO' button before capacitance measurements.
- **'OL' or 'Overload' on Display:** This indicates the measured value exceeds the selected range. Switch to a higher range setting.

# 8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official GOLDCHAMP website. Keep your purchase receipt as proof of purchase.