

65746

Capacitance Meter

OPERATION MANUAL

1. Introduction

This instrument is a reliable precise 3 1/2-digit capacitance meter, which has 10 ranges and is suitable for use in factory, lab, school, institute and etc. It is easy to use and is a very useful measurement tool.

1.1 Characteristics

LCD display, with a max. reading of 1999

10 Ranges

High accuracy

Dual-slop integration A/D converter

Over range indication: "1" shown on the display

Safe design test leads

Size: 35mm x 91mm x 189mm

Weight: about 250g (including battery)

2. Specifications

2.1 General

Power: 9V (6F22) Battery

Low battery indication: "E" shown on the display

Operation condition: Temperature: 0°C~40°C (32°F~104°F)

Relative humidity: <75%

Storage condition: Temperature: -10°C~50°C (14°F~122°F)

Relative humidity: <85%

Zeroing method: Adjust the "0 ADJ" knob

2.2 Specifications

Accuracy is specified for a period of one year after calibration and at 18°C to 28°C, with relative humidity <75%

Accuracy specifications take the form of:

± ([% of Reading]+[number of Least Significant Digits])

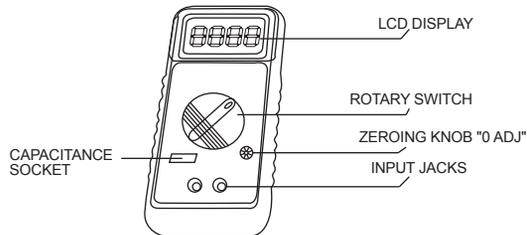
Range	Resolution	Accuracy	Frequency
200pF	0.1pF	±(0.8%+7)	800HZ
2000pF	1pF	±(0.8%+5)	
20nF	10pF		
200nF	100pF	±(0.5%+5)	
2uF	1000pF	±(0.8%+5)	80HZ
20uF	0.01uF		
200uF	0.1uF	±(2.0%+5)	8HZ
2000uF	1uF	±(2.0%+5)	
20mF	10uF	±(5.0%+5)	

Temperature coefficient:

0.1%/1°C for ranges 200pf, 2000pF, 20nF, 200nF

0.2%/1°C for ranges 2uF, 20uF, 200uF, 2000uF, 20mF, 200mF

3. Instruction



4. Using the Meter

4.1 Caution

- 1) Install battery carefully.
- 2) If the capacitor to be measured has polarity, connect it to the meter with correct polarity connections. (+ to + jack, - to - jack)
- 3) Discharge the capacitor to be measured before measurement.
- 4) Never input voltage to sockets, it will cause damage.
- 5) Turn off the meter and remove test leads from the meter before replacing battery or fuse.

4.2 Preparations

- 1) Before performing in-circuit capacitance measurement, disconnect circuit power and discharge all capacitors.
- 2) Clean meter once a while if you use it in a dusty place.
- 3) Avoid exposing the meter to direct sunshine.
- 4) If you want to measure capacitor with the test leads, connect the black test lead to the " _ " jack and the red test lead to the "+ "jack.

4.3 Capacitance measurement

- 1) Set the rotary switch to the "200pF" position, then zero the reading on the display with the "0 ADJ" knob.
- 2) Set the rotary switch the highest range position.
- 3) Connect the test leads to the capacitor or insert the capacitor to the capacitance socket directly.
- 4) If the LCD displays a reading with one or more preceding zeros, select a lower range to make the reading have more numbers of significant digits.
If the overrange indicator "1" appears on the LCD, you should set the rotary switch to a higher range position.
- 5) Read the reading on the display.(reading's unit is same as the currently selected range's unit)

5. Maintenance

When "  " appears on the LCD, replace the battery immediately. Open the back cover, replace the exhausted battery with a new one of the same type. Reinstall the back cover and the screws.

The meter uses a fuse : 500mA/ 250V, Fast action. To replace fuse, open the back cover, replace the blown fuse with a new one of the same ratings. Reinstall the back cover and the screws.

Whenever the meter operates abnormally or has malfunction, stop using it, and have it repaired.

Don't use meter with back cover open.

Use wet cloth or a little detergent for cleaning only.

6. Accessories

- 1) Test leads : 1 pair
- 2) Battery 9V (6F22) : 1 piece
- 3) Manual : 1 copy

DISPOSAL OF THIS ARTICLE

Dear Customer,
If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled.
Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.

