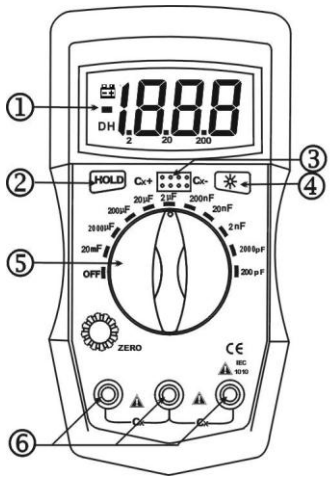
36D

Digital Capacitance Meter Instructions

1. General description

type digital capacitance meter is pocket, convenient operation, accurate numerical reading, low-consumption, driven by battery, and showing numbers in a big LCD. Being accurate in measuring, it covers 9 measuring sections, a wide rang from 0.1pF to 20,000uF. It can be used in testing error testing, numerical analysis, selecting capacitance, measuring unknown capacitance, matching capacitance, and measuring the capacitance of cable, switch and printing electrocircuit.

2. Panel Layout



① LCD Display
② Data-hold Switch (HOLD)
③ Cx+、Cx- Input Jack
④ Back Light Button Switch
⑤ Rotary Switch: use this switch to select functions and ranges
⑥ Cx+、Cx- Input Jack

3. Features

1. It is applied with CMOS double-bevel A/D convertor that is automatic in zeroing and polar selection, and makes instruction for beyond measuring range.
2. Wide measuring range, covering 9 measuring sections from 0.1pF to 20,000uF that includes nominal value of any capacitance.
3. Biggest display value: 1999(3 1/2).
4. Reading: 2-3 readings/sec.
5. Zeroing: There is a zeroing knob on the front, easy for operation.
6. Data hold: Put the “HOLD” switch to "ON" and the DH sign will appear on the display.
7. Press “ ☼ ” button , the back light will light.
8. Temperature for accurate measuring: 25℃±5℃
9. Temperature range: working temperature: 0℃ to 40℃
   Storage temperature: -10℃ to 50℃
10. Relative humidity: <80%
11. Power: a 9V laminated battery
12. Instruction for low voltage of battery: showing“🔋” signal on the left-upper of the LCD.
13. Dimension: 143x75x32mm
14. Weight: Approx. 200g (including battery)

4. Technical specifications

Accuracy: ±(%reading±digits)
Environment temperature: 25℃±5℃
Relative humidity: <80%

Rang	Accuracy	Definition	Testing frequency
200pF	±0.5%±20digit	0.1pF	800Hz
2nF	±0.5%±20digit	1pF	800Hz
20nF	±0.5%±20digit	10pF	800Hz
200nF	±0.5%±20digit	0.1nF	800Hz
2uF	±0.5%±20digit	1nF	800Hz
20uF	±0.5%±20digit	10nF	80Hz
200uF	±0.5%±20digit	0.1uF	8Hz
2000uF	±2.0%±20digit	1uF	8Hz
20000uF	±4.0%±20digit	10uF	8Hz

5. Operation

Firstly, check a 9V battery whether its electric voltage is short that will show “🔋” signal on the left-upper of the LCD. Secondly, pay attention to the polarity or the capacitance to be tested. Thirdly, recharge the capacitance before measuring.

1. Select proper measuring section according to the capacitance to be tested.
2. Check and use the zeroing knob on the front of the meter to adjust the value to zero before measuring.
3. Insert the black sensor into the jack with “**-**”signal and the red sensor into the jack with “**+**”.
4. Connect the capacitance to be tested with the two sensors. Pay attention to the polarity of the capacitance ! Read capacitance numerical value displayed.

Notes:

a. If you don’t know the approximate value of a capacitance, you should select measuring section of 200nF and then make relevant adjusting according to practical situation.

b. If the capacitance is in short circuit, the meter shows “beyond measuring range ”. If the capacitance is in electric leakage, the meter shows “beyond measuring range ”or “much bigger than the normal value ”. If the capacitance is open-circuit, the meter shows “Zero ”or “several pF ”.

c. In testing small capacitance, directly insert the capacitance into the jack instead of using the sensors for better accuracy.

6. Maintenance

The meter is of highly accurate electronic apparatus. Don’t change its internal circuit rashly for no damage to the meter.

1. Don’t exert electric voltage upon the jack parts of the meter for no damage to the meter.
2. Don’t test the sensors in short circuit , or the battery will be consumed out quickly.
3. Don’t use a meter whose back cover doesn’t cover the meter well.
4. Always replace battery and fuse after taking sensors out of a meter that is switched off. First, screw bolts in the back cover out. Second, take off the back cover. Third, replace battery and fuse according to specification provisioned in the operation manual. Suitable fuse for this meter is 200mA/250V, which external dimension is φ5×20 ㎜.
5. Please take out the battery when not using for a long time.

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