

CAP1500/CAP1500P

USER'S MANUAL



**DIGITAL CAPACITOR
TESTER**

FEATURES

- Dual integration A/D converter.
- 3 1/2 digit LCD display for clear readout
- Input overload protection.
- Rotary switch for function selection.
- Low battery indicator

SPECIFICATIONS

1. General Specifications

Display	LCD, 3 1/2-digit, Max. reading 1999
Over-range indication	Mark "1" displayed on the LCD
Sampling Time	Approximate 0.4 sec.
Operating Temperature	32° to 122°F (0° to 50°C)
Operating Humidity	Less than 75%
Power Supply	"9V" battery (6F22)
Dimensions	5.3" x 2.8" x 1.4"
Weight	7.1oz
Accessories Included	User's Manual 1copy Test alligator clips 1pair

1. Electrical Specifications ($23\pm 5^{\circ}\text{C}$)

Accuracy is specified for a period of one year after calibration and at 64°F to 82°F (18°C to 28°C) with relative humidity up to 75%.

Accuracy specifications take the form of:

$\pm([\% \text{ of Reading}] + [\text{Number of Least Significant Digits}])$

CAPACITANCE

RANGE	RESOLUTION	ACCURACY	TEST FREQUENCY
200pF	0.1pF	$\pm(0.5\% + 1 + 0.5\text{pF})$	820Hz
2000pF	1pF		
20nF	10pF		
200nF	100pF	$\pm(0.5\% + 1)$	82Hz
2 μF	1000pF		
20 μF	0.01 μF	$\pm(2.0\% + 5)$	8.2Hz
200 μF	0.1 μF		
2000 μF	1 μF		
20mF	10 μF	$\pm(5.0\% + 5)$	
pF= 10^{-12}F nF= 10^{-9}F μF = 10^{-6}F			

OPERATING INSTRUCTION

Precaution

- Install the battery correctly, and make sure that the battery is well connected.
- Discharge the capacitor before measurement.
- Never input voltage to the input jacks.

Preparation

- Set the function switch to range "200pF", and rotate the zero-adjusting switch for zero-adjusting.
- When measuring in-circuit capacitance, ensure the circuit is switched off and de-energized before connecting the test leads.


Instruments used in dusty environments should be stripped and cleaned periodically.

- Do not leave the instrument exposed to direct heat from the sun for long periods.
- Before removing the battery compartment cover, ensure that the instrument is disconnected from any circuit and the power switch is in the "OFF" position.
- For all measurements, connect the black test lead into "-" jack and the red test lead into "+" jack.

MEASURING CAPACITANCE (C)

1. Rotate the function switch for the maximum expected capacitance range.
2. Plug the "Test alligator clips" to the "Measuring Input jacks", then connect the capacitor to the alligator clips.
 - Observe polarity when connecting polarized capacitors.
 - Fully discharge any charged capacitors.
3. Read the display. The value indicated corresponds to the range selected. If the display shows "1", it indicates an over-range measurement. In order to improve the resolution, select the next higher range.

BATTERY AND FUSE REPLACEMENT

1. When the mark " " is shown on the left corner of the LCD, it indicates that the battery voltage is less than the working voltage. It is necessary to replace the battery, however special measurements may still be made for several hours after LOW BATTERY INDICATOR appears before the instrument becomes inaccurate.

2. Open the battery compartment cover, remove the battery.
3. Replace the old battery with a new one of the same rating and reinstall the cover.
4. The fuse rarely needs to be replaced and is blown generally as a result of the operator's error. To replace the fuse, open the case, replace the blown fuse with the ratings specified: F 250mA/250V, and then close the case.

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 throw it out in the garbage bin. Check with your local council for recycling facilities in your area.



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