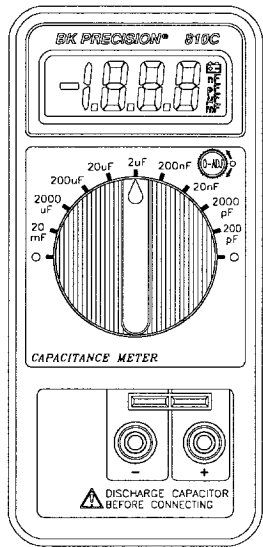


OPERATING INSTRUCTIONS

BK PRECISION® 810C  
CAPACITANCE METER



SPECIFICATIONS

**Display:** 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.  
**Polarity:** Automatic, positive implied, negative polarity indication.  
**Overrange:** (1) or (-1) is displayed.  
**Zero:** Automatic.  
**Low battery indication:** The "E" is displayed when the battery voltage drops below the operating level.  
**Measurement rate:** 2 times per second, nominal.  
**Operating Environment:** 0°C to 40°C at < 70% relative humidity.  
**Storage Temperature:** -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.  
**Accuracy:** Stated accuracy at 23°C ± 5°C, <75% relative humidity.  
**Power:** single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22.  
**Battery life:** 300 hours typical with carbon-zinc.  
**Dimensions:** 151mm (H) x 70mm (W) x 38mm (D).  
**Weight:** Approx. 7 oz. (200g) including battery.  
**Accessories:** One pair test leads, 9V battery (installed), one spare fuse (installed) and Operating Instructions.

Range	Resolution	Accuracy	Test Frequency
200pF	0.1pF	±(0.5%rdg+1dgt+0.5pF)	820Hz
2000pF	1pF		
20nF	10pF		
200nF	100pF		
2µF	1nF	±(0.5%rdg+1dgt)	82Hz
20µF	10nF		
200µF	100nF		
2000µF	1µF	±(2.0%rdg+1dgt)	8.2Hz
20mF	10µF	±(4.0%rdg+1dgt)	

**Test voltage:** <3.5V  
**Input protection:** 0.1A/250V fast acting fuse  
**Zero adjust limited:** ±20pF approx.

OPERATION

**WARNING**

To avoid electrical hazards, discharge the capacitor before measuring.

1. For capacitance measurement less than 200nF, use the "0-ADJ" knob can be subtract the stray capacitance.
  2. Set the range switch to the desired range.
  3. Never apply an external voltage to the input terminals. Damage to the meter may result.
  4. Observe polarity when measuring polarized capacitors.
  5. Insert the capacitor leads into the receptacle socket or directly connect the test clip to the capacitor leads as required.
  6. Read the capacitance direct from the display.
- Battery Replacement**
- Power is supplied by a 9 volt "transistor" battery. (NEDA 1604, IEC 6F22). The "E" appears on the LCD display when replacement is needed. To replace the battery, remove the two screws from the back of the meter and lift off the front case. Remove the battery from battery contacts.
- Fuse Replacement**
- If no capacitance measurements are possible, check for a blown overload protection fuse. For access to fuses, remove the two screws from the back of the meter and lift off the front case. Replace Fuse only with the original type 0.1A/250V fast acting fuse.

LIMITED ONE YEAR WARRANTY

**BK PRECISION** warrants to the original purchaser that its product, and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase.

**BK PRECISION** will, without charge, repair or replace, at its option, defective product or component parts upon delivery to an authorized **BK PRECISION** service contractor or to the factory service department, accompanied by proof of the purchase date in the form of a sales receipt.

Exclusions: This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. It is void if the serial number is altered, defaced or removed.

**BK PRECISION** shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may have other rights which vary from state-to-state.

For your convenience, we suggest you contact your **BK PRECISION** distributor, who may be authorized to make repairs or can refer you to the nearest service contractor.