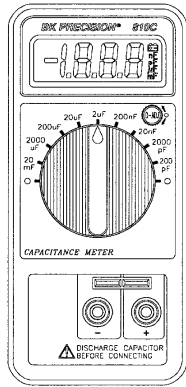


## OPERATING INSTRUCTIONS

### 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, IIS 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	$\pm(0.5\%rdg+1dgt+0.5pF)$	820Hz
2000pF	1pF	$\pm(0.5\%rdg+1dgt)$	
20nF	10pF		
200nF	100pF		82Hz
2μF	1nF		
20μF	10nF	$\pm(2.0\%rdg+1dgt)$	8.2Hz
200μF	100nF		
2000μF	1μF		
20mF	10μF	$\pm(4.0\%rdg+1dgt)$	

**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.

- For capacitance measurement less than 200nF, use the "0-ADJ" knob to subtract the stray capacitance.
- Set the range switch to the desired range.
- Never apply an external voltage to the input terminals. Damage to the meter may result.
- Observe polarity when measuring polarized capacitors.
- Insert the capacitor leads into the receptacle socket or directly connect the test clip to the capacitor leads as required.
- 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.

If warranty cannot be obtained locally, please send the unit to **BK PRECISION** Service Department, 22820 Savi Ranch Parkway Yorba Linda, CA 92887, properly packaged to avoid damage in shipment.

**BK PRECISION** Test Instruments only warrants products sold in the U.S.A. and its overseas territories. In other countries each distributor warrants the **BK PRECISION** products which it sells.

## CUSTOMER SUPPORT 1-800-462-9832

Precision offers courteous, professional technical support before and after the sale of their test instruments. The following services are typical of those available from our toll-free telephone number:

- Technical advice on the use of your instrument.
- Technical advice on special applications of your instrument.
- Technical advice on selecting the best instrument for a given task.
- Instrument for information on optional accessories for your instrument.
- Information on instrument repair and recalibration services.
- Replacement parts ordering.
- Information on other **BK PRECISION** instruments.
- Requests for a new **BK PRECISION** catalog.
- The name of your nearest **BK PRECISION** distributor.

Call toll-free 1-800-462-9832  
Monday through Friday, 8:00 A.M. to 5:00 P.M.  
Pacific Standard Time

**BK PRECISION®**

22820 Savi Ranch Parkway Yorba Linda, CA 92887

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481-363-9-001

Printed in Taiwan