

## Digital LCR Meters

### Model 878B and 879B Hand-Held LCR Meters

B&K Precision's 878B and 879B 40,000 count L/C/R hand-held meters are designed for measuring inductance, capacitance, and resistance components. Simple to operate, the instruments not only take absolute parallel mode measurements, but also series mode measurements. The meters provide direct and accurate measurements of inductors, capacitors, and resistors with different testing frequencies. Front panel push buttons maximize the convenience of function and feature selection such as data hold, maximum, minimum and average record mode, relative mode, tolerance sorting mode, frequency, and L/C/R selection. The test data can be transferred to PC through a mini USB connection with free downloadable software or with SCPI commands.

- ▶ 40,000 Count Primary Display and 10,000 Count Secondary Display
- ▶ L/C/R/Z Primary Measurements (Z with 879B)
- ▶ D/Q/θ/ESR Secondary Measurements (θ/ESR with 879B)
- ▶ Selectable Test Frequencies of 100 Hz, 120 Hz, 1 kHz and 10 kHz (100 Hz and 10 kHz with 879B)
- ▶ 0.5% Basic Accuracy
- ▶ Dual LCD Display
- ▶ LCD Backlight (with 879B)
- ▶ Fast Auto Range Design for Rapid, Easy Component Measurements
- ▶ Static Recording (MAX/AVG/MIN)
- ▶ Data Hold
- ▶ Auto Power Off Options
- ▶ Parallel and Series Measurement Modes
- ▶ Mini USB Interface (Cable Included)
- ▶ SCPI Compatible
- ▶ 3-Year Warranty



Model 878B

| Stock No. | Mfr.'s Type | Description                        | EACH   |
|-----------|-------------|------------------------------------|--------|
| 70146257  | Model 878B  | Universal Hand-Held LCR Multimeter | 248.98 |
| 70146258  | Model 879B  | Deluxe Hand-Held LCR Multimeter    | 298.98 |

### Model 875B — LCR Meter

The rugged 875B LCR is a reliable easy to use workhorse that will measure inductors, resistors and capacitors quickly and accurately. Utilizing special circuitry, the measurement more closely replicates true in-circuit measurements. Ten range resistance range measures to 0.001 zero adjust removes leads resistance.

- ▶ Inductance: 0.1  $\mu$ H to 200 H
- ▶ Capacitance: 0.1 pF to 20,000  $\mu$ F
- ▶ Dissipation Factor Measurement
- ▶ Resistance: 1 M $\Omega$  to 20 M $\Omega$
- ▶ 3 1/2-Digit LCD Display
- ▶ 3-Year Warranty



| Stock No. | Mfr.'s Type | Description | EACH   |
|-----------|-------------|-------------|--------|
| 70146312  | Model 875B  | LCR Meter   | 224.99 |

### Component Tester Accessories

| Stock No. | Mfr.'s Type | Description                             | Compatibility                       | EACH  |
|-----------|-------------|---|-------------------------------------|-------|
| 70146139  | TL08C       | WireKelvin Test Leads                   | 875B, 878B, 879B, 885 and 886       | 83.00 |
| 70146292  | TL1CR       | Component Tester Test Leads             | 875B, 878B and 879B                 | 10.00 |
| 70146138  | TL885B      | 4-Wire Test Lead                        | 885 and 886                         | 55.00 |
| 70228284  | TL8SM       | SMD Tweezer Probe w/ Blade Style Socket | 875B, 878B, 879B, 885, 886 and 889B | 35.00 |

## Handheld Digital Capacitance Meters

### Model 810C — Capacitance Meter

The Model 810C Capacitance Meter is a compact capacitance meter, designed for accurate measurement of capacitive components. It features direct plug in test sockets and test lead jacks. A zero adjustment knob is also provided to "zero" test lead capacitance.



- Features**
- ▶ 3 1/2-Digit LCD Display
  - ▶ Measures Capacitance to 20  $\mu$ F
  - ▶ Nine Ranges from 200 pF to 20  $\mu$ F
  - ▶ 0.1 pF Resolution
  - ▶ Low-Battery and Overload Indicator
  - ▶ Protective Rubber Boot

| Stock No. | Mfr.'s Type | Description       | EACH  |
|-----------|-------------|-------------------|-------|
| 70146310  | Model 810C  | Capacitance Meter | 85.00 |

### Model 830C and 890C — Capacitance Meters

The model 830C and 890C are handheld capacitance meters ideal for performing quick and precise measurements including measuring values, inspection, sorting capacitors and testing capacitors against standard tolerances.



- Features**
- ▶ 9 Automatic Ranges from 1.0 pF to 199.99 mF — Model 830C, 1.0 pF to 50 mF — Model 890C
  - ▶ 4 1/2-Digit, 11,000 Count, Dual LCD Display
  - ▶ Auto Ranging
  - ▶ Backlit Display
  - ▶ Sort on Preset Tolerance of 1, 5, 10%

| Stock No. | Mfr.'s Type | Capacitance      | EACH   |
|-----------|-------------|------------------|--------|
| 70146274  | 830C        | 1.0 pF-199.99 mF | 288.98 |
| 70146275  | 890C        | 1.0 pF-50 mF     | 148.99 |

### Models 885 (10 kHz) and 886 (100 kHz) Synthesized In-Circuit LCR/ESR Meter

The Model 886 Synthesized In-Circuit LCR/ESR Meter is the first handheld meter of this type on the market, with a wide range of test frequencies up to 100 kHz (Model 885 — 10 kHz; Model 886 — 100 kHz) and many measurement parameters including Z, L, C, DCR, ESR, D, Q, and  $\theta$  as well. The 886 is designed for both component evaluation on the production line and fundamental impedance testing for bench top applications. With a built-in direct test fixture, you can test the lead components very easily. The optional 4-wire test clip can give a convenient connection to larger components and assemblies with the accuracy of 4-wire testing. The LCR meters offer fast, reliable, and versatile testing at low cost.



- ▶ Measurement Parameters: Z, L, C, DCR, ESR, D, Q, and  $\theta$
- ▶ Test Conditions: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz (Model 886), 1 VRMS, 0.25 VRMS, 0.05 VRMS
- ▶ 0.5% Basic Accuracy
- ▶ Dual LCD Display
- ▶ SMD Surface Mount Tweezer Probe Included
- ▶ Includes Manual, SMD Probe, 2 AA Ni-Mh Batteries, AC Adapter, Shorting Bar and Software

| Stock No. | Mfr.'s Type | Description                          | EACH   |
|-----------|-------------|--------------------------------------|--------|
| 70146313  | Model 885   | Synthesized In-Circuit LCR/ESR Meter | 595.00 |
| 70146314  | Model 886   | Synthesized In-Circuit LCR/ESR Meter | 835.00 |

### Model 889B — Bench LCR Meter

The Model 889B Synthesized In-Circuit LCR/ESR Meter with component tester is a high accuracy test instrument used for measuring inductors, capacitors and resistors with a basic accuracy of 0.1%. Also, with the built-in functions of DC/AC voltage measurements and Diode/Audible Continuity checks, the Model 889B can not only help engineers and students to understand the characteristic of electronics components but also being an essential tool on any service bench.



- ▶ Measurement Parameters: Z, L, C, DCR, ESR, D, Q, ACV, DCV, ACA, DCA and  $\theta$
- ▶ Test Conditions: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 Hz, 200 kHz, 1 VRMS, 0.25 VRMS, 0.05 VRMS
- ▶ 0.1% Basic Accuracy
- ▶ Dual LCD Display
- ▶ Very Quick Response, User Friendly
- ▶ Fully Auto/Manual Selection
- ▶ DC Resistance Measurement
- ▶ USB Interface

| Stock No. | Mfr.'s Type | Description                               | EACH    |
|-----------|-------------|---|---------|
| 70146229  | 889B        | Bench LCR/ESR Meter with Component Tester | 1475.00 |

### Model 881 — ESR and DCR Capacitor Tester

This in-circuit ESR and DCR capacitor tester is specially designed to measure ESR (Equivalent Series Resistance) on capacitors in the range of 0.47  $\mu$ F to 2200  $\mu$ F, in or out-of-circuit. The ability to troubleshoot in-circuit saves time and makes the 881 a must for anyone that tests or troubleshoots printed circuit boards.



- ▶ In-Circuit Testing of Capacitors
- ▶ 15 mV<sub>rms</sub> Output Test Voltage (Will Not Turn on Any Solid-State Devices)
- ▶ Automatically Discharges the Capacitor Under Test
- ▶ One-Handed Tweezer Test Probe Included
- ▶ One-Year Warranty

| Stock No. | Mfr.'s Type | Description              | EACH   |
|-----------|-------------|--------------------------|--------|
| 70146137  | Model 881   | ESR/DCR Capacitor Tester | 209.99 |

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