

# Bench LCR/ESR Meter with Component Test

## Model 889B



The B&K Precision Corp. 889B Synthesized In-Circuit LCR/ESR Meter 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/Current measurements and Diode/Audible Continuity checks, the 889B can not only help engineers and students to understand the characteristics of electronics components but also being an essential tool on any service bench.

### Features:

- Measurement parameters: Z, L, C, DCR, ESR, D, Q, ACV, DCV, ACA, DCA and  $\emptyset$
- Test conditions: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz, 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

## Specifications

model

889B

Frequency	100Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz, 200 kHz
Frequency Accuracy	$\pm 0.1\%$
Level	1 Vrms, 0.25 Vrms, 0.05 Vrms, 1 Vdc (for DCR)
level Accuracy	$\pm 5\%$
Output Impedance	100 $\Omega$ , $\pm 5\%$

### Measurement Range

#### Impedance (Z)

Frequency	Maximum	Minimum	Best Resolution
DCR	20 M $\Omega$	0.1 $\Omega$	0.001
100 Hz	20 M $\Omega$	0.1 $\Omega$	0.001
120 Hz	20 M $\Omega$	0.1 $\Omega$	0.001
1 kHz	20 M $\Omega$	0.1 $\Omega$	0.001
10 kHz	20 M $\Omega$	0.1 $\Omega$	0.001
100 kHz	20 M $\Omega$	0.1 $\Omega$	0.001
200 kHz	20 M $\Omega$	0.1 $\Omega$	0.001

#### Capacitance (C)

Frequency	Maximum	Minimum	Best Resolution
100 Hz	15.91 mf	79.57 pf	0.001
120 Hz	13.26 mf	66.31 pf	0.001
1 kHz	1.591 $\mu$ f	7.957 pf	0.001
10 kHz	159.1 $\mu$ f	0.795 pf	0.001
100 kHz	15.91 pf	0.159 pf	0.001
200 kHz	0.079 pf	795.7 pf	0.001

#### Inductance (L)

Frequency	Maximum	Minimum	Best Resolution
100 Hz	9999 H	159.1 $\mu$ H	0.001
120 Hz	9999 H	132.6 $\mu$ H	0.001
1 kHz	3183 H	15.91 $\mu$ H	0.001
10 kHz	318.3 H	1.591 $\mu$ H	0.001
100 kHz	31.83 H	0.159 $\mu$ H	0.001
200 kHz	15.91 H	0.159 $\mu$ H	0.001

### GENERAL

Operating Temperature	32° to 104°F (0° to 40°C)
Storage Temperature	-4° to 158°F (-20° to 70°C)
Relative Humidity	up to 85%
AC Operation	110V/220V AC, 60/50Hz
Low Power Warning	under 2.2V
Dimensions (LxWxH)	11.8 x 8.7 x 5.9" (300 x 220 x 150mm)
Weight	10 lbs (4.5 kg)

**Two Year Warranty**

### Accessories

Supplied: Instruction Manual, Kelvin Probe, line Cord