LCB METER

High Precision LCR Meter with RS232 and Handler Interfaces

Z8900



- 100Hz, 120Hz, 1KHz and 10KHz test frequencies
- 0.1% basic accuracy
- 5 digit Back Lit dual LCD display
- C+R, C+D, L+R, L+Q, R+Q or Z+ @ measurement modes
- Built in comparator for sorting components
- Up to 12 measurements per second
- RS232 and Handler Interfaces
- Easy to use front panel
- Short and Open circuit input calibration
- LCD displays parameter values in Absolute,
 Delta or Delta %

SPECIFICATIONS

Measured Parameters

L (Inductance), C (Capacitance), R (Resistance), Z (Impedance), Q (Quality factor), D (Dissipation factor), Θ (Phase angle) Measurement Circuit configurations: Series and Parallel

Measurements

Resistance

Measured Parameter: R+Q

Measurement Range: R: 0.0001Ω to $99.99M\Omega$

Q: 0.0001 to 9999

Impedance

Measured Parameter: Z+O

Measurement Range: Z: 0.0001Ω to $99.99M\Omega$

Θ: -179.99° to 179.99°

Inductance

Measured Parameter: L+Q, L+R

Measurement Range: L: 1µH to 9999H (100Hz &120Hz)

0.1µH to 999.9H (1KHz) 0.01µH to 99.99H (10KHz)

Q: 0.001 to 9999 R: 0.0001Ω to 99.99ΜΩ

Capacitance

Measured Parameter: C+D, C+R

Measurement Range: C: 1pF to19999µF (100Hz and 120Hz)

0.1pF to $199.9\mu F$ (1KHz) 0.01pF to $19.99\mu F$ (10KHz)

D: 0.0001 to 9.999 R: 0.0001Ω to 99.99MΩ

■ Test Environment

Test Voltages: 0.1V, 0.3V, 1V Test Voltage accuracy: ± 10%

Test Frequencies: 100Hz, 120Hz, 1 KHz, 10KHz

Test Frequency Accuracy: ± 0.02%

Measurement rates: Fast: 12 Measurements /Sec

Medium: 5 Measurements /Sec Slow: 2.5 Measurements /Sec

Output Impedance: 30Ω or 100Ω

Trigger: Manual or Auto.

Display

Display Type: 320 x 240 pixel LCD w/Backlight

Displayed Value: 5 Digit Dual display of LCR or Z and Q,D

or Θ measurements

Parameters Displayed: Measured value, Δ absolute, Δ %

Measurement Accuracy:

Basic accuracy: ±0.1% (See user manual for accuracy conditions)

Calibration: Zero input correction: Open and short circuit

Remote operation: RS232 and Handler interface

General Specifications

Power Requirements: 220V or 120V 50/60 Hz Switch selectable

Power Consumption: ≤20 watts

Operating Temperature: 10°C to 30°C (50°F to 86°F) @ ≤70% R.H.

Dimensions: Size (W x H x D): 13" x 6" x 15.7"

(330mm x 150mm x 400mm)

Weight: 7.7lbs

Accessories: Operator's manual, Test leads with Kelvin clips, Radial lead test fixture with axial lead adaptor,

Shorting bar, AC line cord

Mouser Electronics

Authorized Distributor

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Protek: Z8900