

100 Hz, 1 KHz test frequency, RS232/USB interface

# LCR METER

Model : LCR-9073A

ISO-9001, CE, IEC1010

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*The Art of Measurement*

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## FEATURE

* Professional LCR meter, used the LSI-circuit and exclusive microprocessor circuit, high reliability and High measuring accuracy.
* Wide ranger measurement for Inductance, Capacitance and Resistance measurement.
* Test frequency : 100 Hz, 1 KHz.
* Input overload protection
* Rotary switch function selector.
* RS232/USB Computer interface.
* Diode test.
* Large LCD display with backlight.
* Built-in low battery indicator

## GENERAL SPECIFICATION

Display	67 mm x 27 mm large LCD display. 17 mm x 9 mm, digit size. * With LCD backlight ON/OFF control.
Measurement	Inductance ( L ) : 5 ranges : 2 mH to 20 H. Capacitance ( C ) : 6 ranges : 2 nF to 200 uF. Resistance ( R ) : 6 ranges : 200 ohm to 20 Mega ohm. Diode test
Circuit	Custom one-chip of microprocessor LSI circuit
Sampling Time	Approx. 0.4 second.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Over Input Indication	Show " 1 " indicator.
Operating Temperature	0 °C to 50 °C ( 32 °F to 122 °F ).
Operating Humidity	Less than 80% RH.
Power Supply	Alkaline or heavy duty type DC 9V battery, 006P, MN1604 (PP3) or equivalent.
Power Consumption	Approx. 12 mA.
Weight	314 g/0.69 lb.
Dimension	204 x 90 x 36 mm ( 8.0 x 3.5 x 1.4 inch ).
Accessories Included	Instruction manual. 1 PC. Test alligator clips. 1 Pair.
Optional Accessories	* Data Acquisition software, SW-801-WIN * USB cable, USB-01 RS232 cable, UPCB-02

## ELECTRICAL SPECIFICATIONS (23± 5 °C)

### Inductance

Range	Resolution	Test Frequency	Accuracy	Current through Inductance under test
2 mH	1 uH	1 kHz	± ( 2 %+2d )	150 u A
20 mH	10 uH	1 kHz	± ( 2 %+2d )	150 u A
200 mH	100 uH	1 kHz	± ( 2 %+2d )	150 u A
2 H	1 mH	1 kHz	± ( 5 %+2d )	150 u A
20 H	10 mH	100 Hz	± ( 5 %+2d )	15 u A

*uH = micro Henry ( 10<sup>-6</sup> H ) mH = mili Henry ( 10<sup>-3</sup> H )*

\*\*Overload Rating: AC 10V ( 50 Hz/60 Hz ) max, or DC 10V max., less than 30 second.

#### Capacitance

Range	Resolution	Test Frequency	Accuracy	Voltage across Capacitance under test
2 nF	1 pF	1 kHz	$\pm ( 2 \% + 2d )$	150 mV
20 nF	10 pF	1 kHz	$\pm ( 2 \% + 2d )$	150 mV
200 nF	100 pF	1 kHz	$\pm ( 2 \% + 2d )$	150 mV
2 uF	0.001 uF	1 kHz	$\pm ( 2 \% + 2d )$	150 mV
20 uF	0.01 uF	100 Hz	$\pm ( 2 \% + 2d )$	150 mV
200 uF	0.1 uF	100 Hz	$\pm ( 2 \% + 2d )$	15 mV

*pF = pico Farad (  $10^{-12} F$  )*  
*nF = nano Farad (  $10^{-9} F$  ) uF = micro Farad (  $10^{-6} F$  )*

\*\* Overload Rating: Charged capacitor 100 uF/ 50 V Max.

#### Resistance

Range	Resolution	Accuracy	Open circuit Voltage
200 $\Omega$	0.1 $\Omega$	$\pm ( 1 \% + 2d )$	2.4 V
2 k $\Omega$	1 $\Omega$	$\pm ( 1 \% + 2d )$	2.4 V
20 k $\Omega$	10 $\Omega$	$\pm ( 1 \% + 2d )$	Approx. DC 250 m V
200 k $\Omega$	100 $\Omega$	$\pm ( 1 \% + 2d )$	Approx. DC 250 m V
2 M $\Omega$	1 k $\Omega$	$\pm ( 1 \% + 2d )$	Approx. DC 250 m V
20 M $\Omega$	10 k $\Omega$	$\pm ( 2 \% + 2d )$	Approx. DC 250 m V

\*\* Overload Rating: AC / DC 500V at 20 seconds Max.

#### Diode test

Short/non conductance, good/defect test
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\* Appearance and specifications listed in this brochure are subject to change without notice.

LCR-9073A+0905

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