

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

LCR METER

Model : LCR-9073A

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

LCR METER

Model : LCR-9073A

FEATURES

* 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 SPECIFICATIONS

Display	67 mm x 27 mm large LCD display. 17 mm x 9 mm, digit size. * With LCD backlight ON/OFF control.
Measurement	<i>Inductance (L) :</i> 5 ranges : 2 mH to 20 H. <i>Capacitance (C) :</i> 6 ranges : 2 nF to 200 uF. <i>Resistance (R) :</i> 6 ranges : 200 ohm to 20 Mega ohm. <i>Diode test</i>
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, UPCH-02

ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

L (Inductance)

Range	Resolution	Test Frequency	Accuracy
2 mH	1 uH	1 kHz	± (2 % + 2d)
20 mH	10 uH	1 kHz	± (2 % + 2d)
200 mH	100 uH	1 kHz	± (2 % + 2d)
2 H	1 mH	1 kHz	± (5 % + 2d)
20 H	10 mH	100 Hz	± (5 % + 2d)
<i>uH = micro Henry (10⁻⁶ H)</i>			
<i>mH = mili Henry (10⁻³ H)</i>			

Range	Current through Inductance under test
2 mH	150 uA
20 mH	150 uA
200 mH	150 uA
2 H	150 uA
20 H	15 uA

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

C (Capacitance)

Range	Resolution	Test Frequency	Accuracy
2 nF	1 pF	1 kHz	± (2 % + 2d)
20 nF	10 pF	1 kHz	± (2 % + 2d)
200 nF	100 pF	1 kHz	± (2 % + 2d)
2 uF	0.001 uF	1 kHz	± (2 % + 2d)
20 uF	0.01 uF	100 Hz	± (2 % + 2d)
200 uF	0.1 uF	100 Hz	± (2 % + 2d)
<i>pF = pico Farad (10⁻¹² F)</i>			
<i>nF = nano Farad (10⁻⁹ F)</i>			
<i>uF = micro Farad (10⁻⁶ F)</i>			

Range	Voltage across Capacitance under test
2n F	150 mV
20 nF	150 mV
200 nF	150 mV
2 uF	150 mV
20 uF	150 mV
200 uF	15 mV

Overload Rating
Charged capacitor 100 uF/ 50 V Max.

R (Resistance)

Range	Resolution	Accuracy
200 Ω	0.1Ω	± (1 % + 2d)
2 kΩ	1 Ω	± (1 % + 2d)
20 kΩ	10 Ω	± (1 % + 2d)
200 kΩ	100 Ω	± (1 % + 2d)
2 MΩ	1 kΩ	± (1 % + 2d)
20 MΩ	10 kΩ	± (2 % + 2d)

Range	Open circuit Voltage
200 Ω	2.4 V
2 kΩ	2.4 V
20 kΩ	Approx. DC 250 mV
200 kΩ	Approx. DC 250 mV
2 MΩ	Approx. DC 250 mV
20 MΩ	Approx. DC 250 mV

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

Diode test

Short/non conductance, good/defect test