User Manual

LC200A Handheld L/C Meter

Inductance Capacitance Meter

Features:

High speed microcontroller's precision computation

Measuring range below 1uH and 1pF

Intellectually Shutdown in 5 minutes

Especially qualify in microwave manufacture and measuring switching power supply transformer, filter inductance and so on.

LC200A has four measuring range position:

- 1. C rangeCapacitance (0.01pF-10uF)
- 2. L rangeInductance (0.001uH-100mH)
- 3. Hi.L rangeBig inductance (0.001mH-100H)
- 4. Hi.C rangeBig capacitance (1uF-100mF)

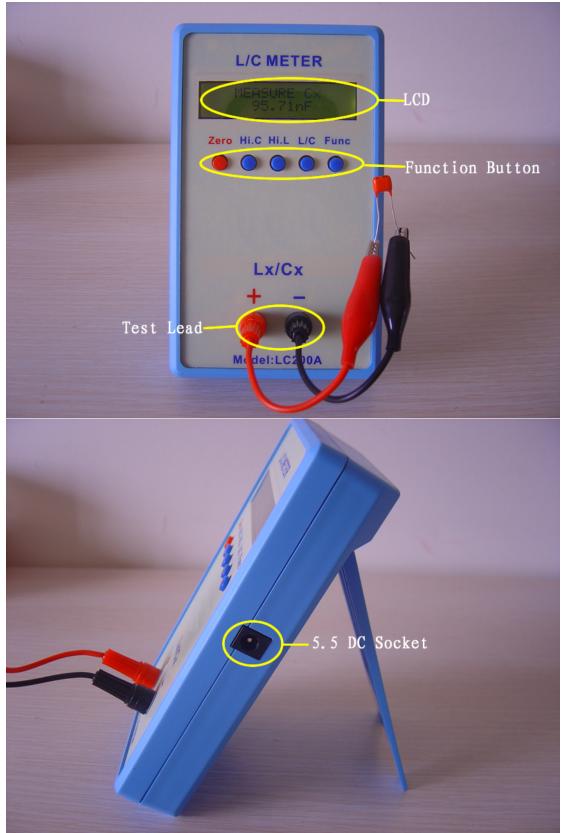
All range position are automatic measuring ranges, it is easy to operate. Specification is as follows:

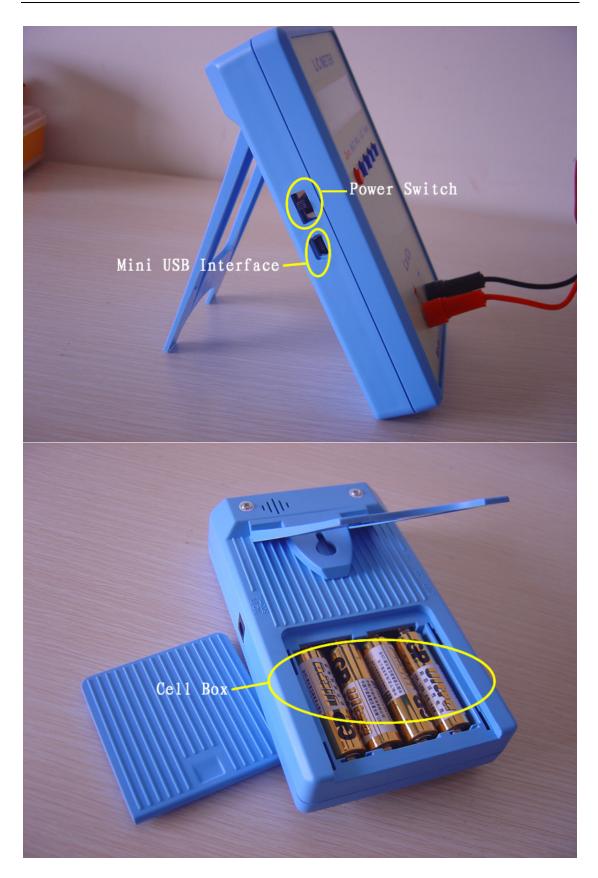
Item		Parameter
Capacitance Accuracy	0.01pF-1pF	5%
	1pF-1uF	1%
	1uF-10uF	5%
Min Capacitance Resolution (C Range)		0.01pF
Inductance	0.001uH-1uH	5%
Accuracy	1uH-100mH	1%
Min Inductance F	0.001uH	
Big Inductance	100mH-1H	1%

1. Technique data:

Accuracy	1H-100H		5%
Min Resolution of Big Inductance (Hi.L Range)			0.001mH
Big Capacitance Accuracy 1uF-100mF			5%
Min Resolution of Big Capacitance (Hi.C Range)			0.01uF
Frequency	L Range、C Range		Abt. 500kHz
	Hi.L Range		Abt. 500Hz
Display mode			1602 LCD
Display digit			4
			Mini USB & 5.5DC Socket
Power supply interface		4 of AA Batteries	
Supply Voltage		5V	

2. Picture





Function of five buttons:

Red: Reset

Blue: Big Capacitance Hi.C Choice (With self-locking)

Blue: Big Inductance Hi.L Choice (with self-locking)

Blue: L/C Choice (with self-locking)

Blue: Function button

Details as follows (Press "1", Release "0", "X" random)

Hi.C	Hi.L	L/C	Corresponding function
0	0	0	Small Capacitance(C)
0	0	1	Small Inductance(L)
0	1	1	Big Inductance (Hi.L)
0	1	0	Error, please modify
0	X	X	Big Capacitance (Hi.C)

LC200A Function table

3. Direction for use

- (1). Switch on the L/C Meter
- (2). Chose the corresponding range, inductance: Lx, capacitance:

Cx, big inductance: Hi.L, big capacitance: Hi.C. Display as

follows (testing lead open loop) :

Inductance: MEASURE Lx OVER RANGE

6

Capacitance: MEASURE Cx	0.00pF			
Big inductance: MEASURE Hi.L	OVER RANGE			
Big capacitance: MEASURE Hi.C	0.00uF			
Display as follows (testing lead short circuit):				
Big inductance: MEASURE Hi.L	0.000mH			
Inductance: MEASURE Lx	0.000uH			
Capacitance: MEASURE Cx	OVER RANGE			

(3).When testing lead open loop the measured value of capacitance is not "0", or witch of the inductance is not "0" as the testing lead short circuit, you can reset to "0" by ways of capacitance model and inductance model, as follows:

(a) Capacitance model

Press red button as testing lead open loop, it displays "CALCULATING...", keep pressing for one second, when "CALCULATING...OK" displayed, resetting to "0" is finished, and "0.00pF" is displayed, then capacitances can be measured.

(b) Inductance model

Press red button as testing lead short circuit, it displays "0.000uH" or "0.000mH", and then inductances can be measured.

(4). Please press function button as results displayed, and

7

corresponding frequency will be displayed.

4. Note:

- Please reset to "0" before testing a capacitance or an inductance, or errors may be appeared. Even if "0" displayed before measuring, resetting to "0" is needed.
- At the time of resetting to "0", when "CALCULATING...OK" appeared, please keep pressing for 2 to 3 seconds, and the parameter written to "<DATA SAVED>" will be prompted, then release.
- Resetting to "0" is forbidden as components are being measured.
 If you do it, please shut down immediately and restart, then reset to "0".
- 4. The time of measuring a big capacitance (above 10mF) may be more than one second, and it needs seven to eight seconds to get the measured value of the capacitance (100mF).
- 5. Forbid to measure a capacitance which is not discharged, otherwise it may damage the mainframe.

5. Package content

- 1. A LC200A L/C Meter
- 2. A mini USB Cable or DC5V adaptor