



LCR METER

- LCR2000 Series

- + Consecutive test frequency
- + Basic accuracy : 0.05%
- + Measuring speed up to 40 times per second
- + Use 9-range test, auto, lock and nominal
(the instrument automatically selects the best range based on nominal value)
- + DCR measurement and internal D.C. bias voltage ($\pm 2.5V$)
- + 3.5" color LCD
- + Interface : RS-232C, Handler, USB Host / Device
- + Support SCPI and ModbusRTU communication protocol

PRODUCT STRUCTURE

USB Host interface, capable of storing test data and interface.

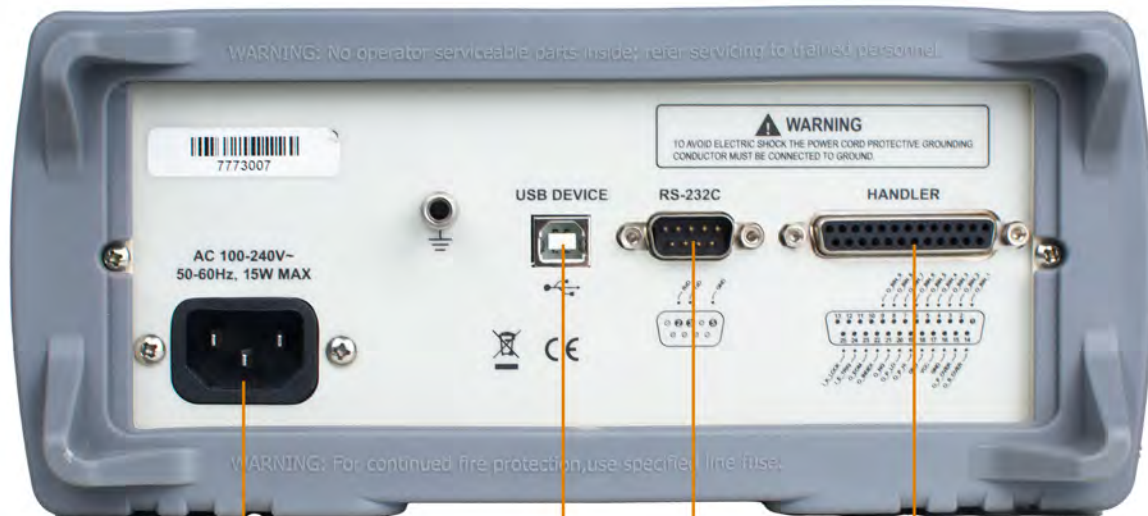
3.5-inch LCD display



Power switch

Shortcut key for easy menu access, making operations more convenient.

Four-wire measurement terminal



Power input
AC 100-240V

USB Device
interface

RS232-C interface

Handler interface

FUNCTIONALITY OVERVIEW

Continuously adjustable frequency

The LCR2000 series offers arbitrary test frequencies within the measurement range and allows the selection of test signal levels from 0.01V to 2.00V with a step size of 0.01V.



Multiple parameters and multiple digits display

The main and secondary parameters are displayed in full with six digits each. Additionally, there are two monitoring displays capable of simultaneously showing one of Z, D, Q, θ_r , θ_d , R, X, G, B, Y, Vac, Iac, Δ , $\Delta\%$ with up to 0.05% accuracy. This precision allows the instrument to meet the requirements of accurate testing and batch production for component manufacturers, schools, research institutes, and metrology quality inspection departments.



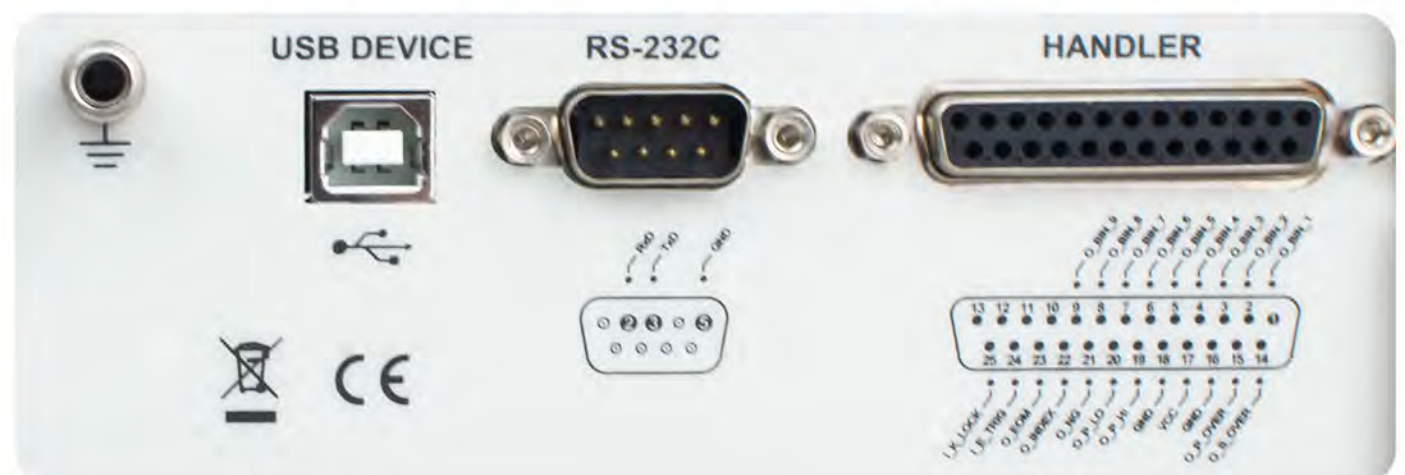
Automatic range function

The LCR2000 series offers 9-range testing and provides three measurement modes: automatic, locked, and nominal. It can automatically select the optimal range based on the nominal value.



Rich interfaces

The LCR2000 series offers professional sorting functions, with the ability to store 10 sets of files. It includes programmable qualification levels with 9 pass levels, 1 auxiliary level (for secondary parameters not meeting criteria), and 1 fail level, along with main parameter HI/IN/LO levels. It supports percentage sorting or absolute value sorting, and comes equipped with Handler and RS-232C interfaces for use in automated sorting systems, enabling fully automated production line testing. The front USB Host interface allows saving configuration and measurement data to external storage devices.



PRODUCT SPECIFICATIONS

Model NO.	LCR2300	LCR2200	LCR2100	LCR2020
Test Function	Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, G-B, R-X, Z- θ r, Z- θ d, DCR			
Monitor Parameter	Z, D, Q, θ r, θ d, R, X, G, B, Y, Vac, Lac, Δ , Δ %			
Test Frequency	10Hz ~ 300kHz	10Hz ~ 200kHz	10Hz ~ 100kHz	10Hz ~ 20kHz
Basic Accuracy	0.05%(Slow/Med), 0.1%(Fast)			
Measurement Speed	40 times/s, 10 times/s, 3 times/s			
Display Rang	L: 0.00001uH ~ 9999.99H C: 0.00001pF ~ 9999.99mF R,X,Z: 0.00001 Ω ~ 99.9999M Ω B,G: 0.01nS ~ 999.999S D: 0.00001 ~ 9.99999 Q: 0.00001 ~ 99999.9 θ d: -179.999° ~ 179.999° θ r: -3.14159 ~ 3.14159 %: -999.999% ~ 999.999%			
Output impedance	30 Ω , 50 Ω , 100 Ω			
Ranging	Auto, Hold and Nominal range. Total 9 Ranges.			
DC Bias (Internal)	-2.50V ~ +2.50V			
Correction Function	OPEN/SHORT			
Beep Feature	OFF/PASS/FAIL and HIGH/LOW tone			
Memory	built-in 10 files			
Trigger Mode	Internal, Manual, External and Remote Trigger.			
Interface	USB Host / Device, RS232, Handler			
Display	3.5 inch LCD			

ACCESSORIES

The accessories subject to final delivery.



Power Cord



Manual



USB Cable



T10 Test Fixture



Test Leads



Short-circuit foil



F10 SMD
Test Clips
(only for
LCR2200,2300)



F11 SMD
Test Clips
(optional)



F12 SMD
Test Clips
(optional)