



LCR-2000 Compact LCR Meter



LCR-2000 Series compact LCR Meter adopts the latest technology & high density circuit design and concentrating the essence of LCR test, LCR-2000 series is a new generation compact LCR meter of low cost and high performance. Instead of traditional mechanical power switch, it adopts software control power switch. The basic accuracy of 0.05% and good test stability can compare favourably with those high-end models.

Being equipped with 4.3 inch TFT LCD Display and brand new interface system, LCR-2000 series LCR meters possess elegant appearance and easy operation. Some of the models integrate transformer test function, which enhance the production and testing efficiency. Also, being provided with various interfaces and good compatibility with SCPI commands, LCR-2000 series LCR meters are convenient for constituting all kinds of test system and satisfy various kinds of demands for inspection, production and scientific research.

Model	LCR-2100/2200	50Hz-100kHz, 34 points / 20Hz-200kHz, 15025 points	
Basic measurement accuracy (See details in technical specification)	LCRZ	0.05%	
	DCR, turn ratio	0.1%	
	Calibration condition	Warm up time:≥ 30 s Environment temperature:23±5°C Signal voltage:0.3Vrms – 1Vrms Zero clearing:after OPEN, SHORT Testing cable length:0 m	
Test signal frequency	LCR-2100/2200	50Hz-100kHz , 34points / 20Hz-200kHz, 15025 points	
Signal source output impedance	Selectable 30Ω, 100Ω, ±1% @1kHz		
AC test signal level	Normal	10mV~2Vrms (LCR-2100:50mV~1Vrms)	Minimum resolution:10mV, Accuracy:10% x setting voltage+2mV
		100μA~20mArms (LCR-2100:500μA~10mA rms)	Minimum resolution:0.1mA
	Constant level	20mV~1Vrms (LCR-2100:100mV~500mVrms)	Minimum resolution:10mV Accuracy:10% x setting voltage +2mV
		200μA~10mArms	Minimum resolution:0.1mA

		(LCR-2100:1mA~5mA rms)	
DC bias voltage source (LCR-2100 with no bias voltage source)		0V~ ± 5V	Minimum resolution:0.5mV, Accuracy:1% x setting voltage +5mV
		0mA~ ± 50mA	Minimum resolution:0.5μA
Transformer test parameters		Turn Ratio, Turns, Phase, L, C, Lk, Q, ACR, DCR, Balance, Pin Short	
LCR test parameters		Z , Y , C, L, X, B, R, G, D, Q, θ, DCR	
DCR display range		0.00001 Ω-999.999 MΩ	
DCR polarity configuration		FIX, ALT	
Turn ratio display range		1:0.001-1000:1	
LCR parameters display range	Z , R, X	0.00001Ω ~ 99.9999MΩ	
	Y , G, B	0.00001μs ~ 99.9999s	
	C	0.00001pF ~ 9.99999F	
	L	0.00001μH ~ 99.9999kH	
	D	0.00001 ~ 9.99999	
	Q	0.00001 ~ 99999.9	
	θ(DEG)	-179.999° ~ 179.999°	
	θ(RAD)	-3.14159 ~ 3.14159	
Δ%	-999.999% ~ 999.999%		
Measurement time (≥10 kHz)		Fast: 75 meas/sec(13ms), Medium:11 meas/sec(90 ms) Slow:2.7meas/sec(370 ms)	
Equivalent circuit		Serial, Parallel	
Range mode		Auto, Hold	
Trigger mode		Internal, Manual, External, Bus	
Average time		1-255	
Zero clearing		Open, Short, Load	
Arithmetical operation		Direct reading, ΔABS, Δ%	
Delay time setting		0 -- 60.000s, 1ms steps	
Comparator function		10 bins, BIN1~BIN9, NG, AUX	
		Bin count function	
		PASS, FAIL front panel or scan fixture LED display	
Memory		100 groups of LCRZ instrument setting files 201 test result	
Interface	Control interface	HANDLER or SCANNER	
	Communication interface	USB HOST, RS232C, RS485(option), GPIB(option)	
	Storage interface	USB DEVICE (U-disk storage or barcode scan)	
Other	Dimensions	235(W)x105(H)x350(D)mm	
	Weight	4.5 kgs	