

## LCR7000 Series

### Introduction

The LCR7000 series are high precision LCR meter with basic accuracy 0.1% and maximum measurement frequency 10kHz, 30kHz and 200kHz. The 5-digit 4.3-inch TFT LCD display gives easy reading. The RS-232 interface facilitates in remote control and analysis of measurement results. With its fast measurement speed, wide frequency range and low cost, the LCR7000 series are widely used in R&D, IQC, online quality control and automatic test system.

### Features

- ✓ 32-bit core processor
- ✓ 5-digit 4.3-inch TFT LCD display
- ✓ 2 signal source output impedance: 30 $\Omega$ , 100 $\Omega$
- ✓ 100 sets memories for internal storage/save
- ✓ 500 memories for U disk storage/save, supports FAT16 and FAT32 files
- ✓ Save the last parameter settings before power off
- ✓ Standard interface: RS-232, HANDLER, USB HOST

### Product photo



## Specifications

Model	LCR-7010	LCR-7030	LCR-7200
<b>Measurement function</b>			
Test parameter	Z ,  Y , C, L, X, B, R, G, D, Q, $\theta$		
Test signal frequency	<b>LCR-7010:</b> 100Hz, 120Hz, 1kHz, 10kHz <b>LCR-7030:</b> 100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 30kHz <b>LCR-7200:</b> 40Hz, 50Hz, 60Hz, 75Hz, 100Hz, 120Hz, 150Hz, 200Hz, 250Hz, 300Hz, 400Hz, 500Hz, 600Hz, 750Hz, 800Hz, 1kHz, 1.5kHz, 2kHz, 2.5kHz, 3kHz, 4kHz, 5kHz, 6kHz, 7.5kHz, 10kHz, 12kHz, 15kHz, 15.7kHz, 16.2kHz, 20kHz, 25kHz, 30kHz, 40kHz, 50kHz, 60kHz, 66.6kHz, 75kHz, 100kHz, 120kHz, 150kHz, 200kHz (38 points)		
Basic accuracy	0.15%	0.1%	0.1%
Equivalent circuit	Series, Parallel		
Mathematical function	Absolute Deviation and Percentage Deviation		
Range mode	Auto, Hold, Manual Selection		
Trigger mode	Internal, Manual, External, BUS		
Measurement speed	Fast: max.30, Medium: 10, Slow: 3 (times/second) ( $\geq 1$ kHz)		
Average times	1-255		
Delay time	0-60s, step 1ms		
Calibration function	Open circuit, Short circuit, Load		
Measurement terminal	5-terminal		
Display mode	Direct, $\Delta$ , $\Delta\%$ , V/I (monitoring test voltage and current)		
Display	5 digit 4.3-in LCD display		
<b>Measurement signal</b>			
Output impedance	30 $\Omega$ , 100 $\Omega$		
Test level	0.1V, 0.3V, 1V	0.1V, 0.3V, 1V	0.05V to 1V
Test level accuracy	5%		
<b>Measurement display range</b>			
Z , R, X	0.01m $\Omega$ - 99.999 M $\Omega$		
Y , G, B	0.0001 $\mu$ S - 99.999 S		
C	0.0001 pF - 9.9999 F		
L	0.0001 $\mu$ H - 999.99 H		
D	0.0001 - 9.9999		
Q	0.0001 - 9999.9		
$\theta$ (DEG)	-179.99 $^\circ$ - 179.99 $^\circ$		
$\theta$ (RAD)	-3.14159 - 3.14159		
$\Delta\%$	-999.99% - 999.99%		
<b>Comparator and interface</b>			
Comparator	N/A	4-bin comparator	5-bin comparator
Memory	100 sets memories for internal parameter settings storage/save 500 sets for U disk parameter settings storage/save		
Standard interface	Standard: RS232, USB HOST	Standard: RS232, USB HOST, HANDLER	
Optional interface	N/A		
<b>General</b>			
Operating environment	0 $^\circ$ C - 40 $^\circ$ C, $\leq 80\%$ RH		
Power source	110/220V $\pm 10\%$ , 47~63Hz		
Power consumption	$\leq 30$ VA		
Accessories	4-terminal Kelvin test clip leads, RS232 cable, power cord, operation manual		
Dimensions	265W*100H*340D mm		
Weight	Approx.3.5kg		

Specifications are subject to change without prior notice.