



## MCR-5000 series

High Precision LCR Meter

MCR5000 series is a multifunctional LCR precision meter used for testing various electronic components. Adopt 4.3-inch TFT LCD display, simple display, elegant layout. It is a high speed, wide band, 5 bit test resolution impedance measuring instrument with 40hz-200khz multiple frequency points and 0.1% accuracy, which can meet the requirements of component parameter detection in various occasions. Is a high - quality cost-effective tester.

model	MCR-5010	MCR-5030	MCR-5100	MCR-5200
Test parameters	L, C, R,  Z , R, X, ESR, $\theta$ (Deg), $\theta$ (Rad)			
Test frequency	100Hz, 120Hz, 1kHz, 10kHz	100Hz, 120Hz, 1kHz, 10kHz, 20kHz, 30kHz	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, 66.65kHz, 75kHz, 100kHz, a total of 38 frequency points	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, 66.65kHz, 75kHz, 100kHz, 120kHz, 150kHz, 200kHz, a total of 41 frequency points
Basic measurement accuracy	0.15%	0.1%		
Test signal level	0.1V, 0.3V, 1V		0.05V, 0.1V, 0.2V, 0.25V, 0.3V, 0.4V, 0.5V, 1V	
Equivalent Circuit	Series Parallel			
Mathematical functions	Percentage deviation			

Range method	Automatic, hold, manual selection
Trigger method	Internal, manual, external, bus
Measuring speed ( $\geq 1\text{kHz}$ )	Fast: the fastest 30 times / second, medium speed: 10 times / second. Slow speed: 3 times / second
Average times	1-255
Delay time	0-6S, step by 1ms
Calibration function	Open circuit / short circuit / quick reset
Display method	Direct reading, $\Delta\%$ , V / I (measured voltage / current monitoring)
monitor	5-digit display of main and auxiliary parameters, 4.3-inch true color LCD display
Output impedance	30 $\Omega$ , 100 $\Omega$ optional
Display range	
Z , R, X, ESR	0.1m $\Omega$ -99.999M $\Omega$
C	0.01pF-9.9999F
L	0.01 $\mu$ H-99999H
D	0.0001-9.9999
Q	0.0001-9999.9
$\theta$ (Deg)	-179.99 $^{\circ}$ -179.99 $^{\circ}$
$\theta$ (Rad)	-3.1416-3.1416
$\Delta\%$	-999.99% -999.99%
Comparator function	5 files sorting function

Memory	More than 100 sets of internal instrument settings for storage / recall, U disk expands more than 500 sets	
interface	Standard RS-232C, HANDLER, USB HOST, optional USB DEVICE, headphone jack, foot pedal, GPIB	
Bare metal size (W * H * D) mm	240 * 100 * 330	
Packing size (W * H * D) mm	330 * 210 * 425	
Net weight kg	3.5	3.8
Gross weight kg	4.5	4.7