

# High Precision LCR Meter

## MCR-8000H Series



- With new 32-bit core, as good as first class equipments
- 7 inch true color TFT display
- 20Hz-5MHz testing frequency, frequency point continuously adjustable
- 0.05% basis testing accuracy, high speed in testing.
- -5V~+5V(-100mA~+100mA)Internal DC bias
- Automatic level control function
- Graphic scan analysis function, support frequency / level/offset scanning, display the characteristics

- 30Ω , 50Ω, 100Ω, 10/CC four different signal out put impedance
- Built-in comparator, 10 files sorting and file counting function
- 10-point list scan function
- The software upgrade and update of the machine can be realized through the U disk
- U disk copy screen function can save data, support FAT32 data system
- Standard with RS232C, USB HOST, USB DEVICE HANDLER, headphone jack, foot pedal interface
- Matching GPIB

Standard  USB Host  RS232C  Handler  USB Device  Headphone Jack  Foot Pedal  Optional  GPIB

Model	MCR-8100H	MCR-8200H	MCR-8500H
Test parameter	Z ,  Y , C, L, X, B, R, G, D, Q, θ, DCR		
Test frequency	20Hz-1MHz, 0.0001Hz resolution	20Hz-2MHz, 0.0001Hz resolution	20Hz - 5 MHz, 0.0001Hz resolution
Basic testing accuracy	0.05%		
Equivalent Circuit	In series, in parallel		
Mathematical functions	Absolute deviation , percentage deviation		
Range way	Automatic, hold, manual selection		
Trigger mode	Internal, manual, external, bus		
Measure speed ( ≥1kHz )	High speed: The fastest is 200 times/second ( customizable ) , middle : 12times/second, low: 3times/second		
Average time	1—255		
Delay time	0—6s, step is 1ms		
Calibration function	Open circuit/ short circuit / load		
Display mode	Direct reading , Δ% , V/I ( Measured voltage/current monitoring)		
Displayer	800*480 RGB 7 inch 16 : 9 TFT LCD display		
<b>Testing signal</b>			
Output impedance	30 Ω , 100Ω , 10/100 , 10/CC optional		
Test signal level	Normal : 10mV~5V Accuracy : 10% , 1mV step Constant level : 10mV~1V Accuracy : 5% , 1mV step		
DC bias source	Internal	-5V~+5V(-100mA~+100mA)Built-in bias current source , 5% , 1mV step	
	Matching	IV100mA:±10V(±100mA)DC bias source option IV1A:0~1 DC bias source option	
<b>Display range</b>			
Z , R , X	0.01mΩ — 99.9999 MΩ		
DCR	0.01 mΩ — 99.9999 MΩ		
Y , G , B	0.00001μS — 99.9999S		
C	0.00001pF — 9.9999F		
L	0.00001μH — 99.9999kH		
D	0.00001 — 9.9999		
Q	0.00001 — 9999.9		
θ (DEG)	-179.999° — 179.999°		
θ (RAD)	-3.14159 — 3.14159		
Comparator function	10 grade: (9 grades qualified, 1 grades not qualified), otherwise with AUX grade		
Storage	More than 100 sets of internal instrument settings for storage/call, U disk extension of more than 500 sets		
Interface	Standard with RS232C, HANDLER, USB HOST; Matching with USB DEVICE, Headphone jack, Foot pedal interface, GPIB		
Instrument size (W*H*D)	370*125*340		
Packing size (W*H*D)	445*260*495		
Net weight (kg)	7.4		
Gross weight (kg)	9.7		

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Digital LCR Meter