



TEKLAB digital High Accuracy A Series LCR meter is a bench LCR meter digital, available with 4 models like 100 kHz, 200 kHz, 300 kHz and 500 kHz. **TEKLAB digital High Accuracy A Series LCR meter** has basic accuracy 0.05% for LCR meter. The **TEKLAB A Series LCR meter** digital can be used for testing passive components, such as incoming inspection, the production and sorting of passive components. This provides the best combination of accuracy, speed, and versatility for a wide range of component measurements.

TEKLAB Benchtop LCR meters primarily focused on enhanced accuracy, wider measurement ranges, and more advanced features. They provide more precise measurements, often with programmable frequencies, computer control for data collection, and capabilities like DC bias voltage and current, which is crucial for applications in which precise component value measurements are essential, such as in R&D or high-precision manufacturing. Moreover, **TEKLAB Benchtop LCR meter's** simple and stylish design gives your lab the dignity you deserve.

FEATURES

- 32-bit core processor
- 5-digit 4.3-inch TFT LCD display
- 2 signal source output impedance: 30Ω, 100Ω
- List mode function, 10 steps
- 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 powering off
- Standard interface: RS-232, HANDLER, USB HOST

TECHNICAL SPECIFICATIONS

Model	TLLCR-5100A	TLLCR-5200A	TLLCR-5300A	TLLCR-5500A
Measurement function				
Test parameter	Z , Y , C, L, X, B, R, G, D, Q, θ , DCR			
Test signal frequency	12Hz~100kHz	12Hz~200kHz	12Hz~300kHz	12Hz~500kHz
Min frequency step	0.1mHz			
Basic accuracy	0.05%			
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.75, Medium: 12, Slow: 3 (times/second) (≥ 1 kHz)			
Average times	1-255			
Delay time	0-60s, step 1ms			
Calibration function	Open circuit, short circuit, Load			
Display mode	Direct, Δ , $\Delta\%$, V/I (monitoring test voltage and current)			
Display	6 digit 4.3-in LCD display (480x272 RGB5)			
List Mode	10 steps			
Measurement signal				
Output impedance	30 Ω , 100 Ω , 10/100, 10/CC			
Test level and accuracy	Normal: 5mV~2Vrms, accuracy 10%, Min step1mV, Max. test current 20mA Constant level: 5mV~1Vrms, accuracy 6%, Min step1mV			
DC bias source	0V, 1.5V, 2V Accuracy 1%			
Measurement display range				
Z , R, X	0.01m Ω - 99.9999 M Ω			
DCR	0.001 m Ω - 99.9999 M Ω			
Y , G, B	0.00001 μ S - 99.9999 S			
C	0.00001 pF - 9.99999 F			
L	0.00001 μ H - 99.9999 k H			
D	0.00001 - 9.99999			
Q	0.00001 - 99999.9			
θ (DEG)	-179.999 $^{\circ}$ - 179.999 $^{\circ}$			
θ (RAD)	-3.14159 - 3.14159			
$\Delta\%$	-999.999% ~ 999.999%			
Comparator and interface				
Comparator	10 bins (9 pass 1 fail) and 1 AUX bin			
Memory	100 sets memories for internal parameter settings storage/save500 sets for U disk parameter settings storage/save			
Standard interface	Standard: RS232, USB HOST, HANDLER, EARPHONE, PEDAL interfaces			
Optional interface	GPIB			
General				
Operating environment	0 $^{\circ}$ C - 40 $^{\circ}$ C, $\leq 80\%$ RH			
Power source	110/220V $\pm 10\%$, 47~63Hz			
Power consumption	≤ 50 VA			
Accessories	4-terminal Kelvin test clip leads, RS232 cable, power cord, operation manual			
Dimensions	265W*100H*340D mm			
Weight	Approx.4.5kg			

Manufactured by,

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