

Digital LCR Meter

AT3810A/AT810A

Upgraded AT3810A with color LCD, english operation and large font used for laboratory quality control and component parts sorting.

AT38 series increased DCR measurement and internal DC bias. (DC BIAS, $\pm 2.5V$). 4 parameters can be tested simultaneously. Each parameter can be set arbitrarily. Both main and sub parameters can be displayed in 6 dgt after improvement. It can scan 10 kinds of frequency or levels. also can correct 3 groups of user's Frequency to improve accuracy. Built-in comparator, HANDLER interface combined with PLC to complete automatic sorting of components and built-in SCPI and Modbus protocols.

AT810A Characters

- Frequency: 10Hz~20kHz
- Signal level: 0.01V~2.00Vrms
- Accuracy: 0.05%
- Chinese/English operation



AT3810A Characters

- Frequency: 10Hz~20kHz
- Signal Level: 0.01V~2.00Vrms
- Accuracy : 0.05%
- Chinese/English operation
- DCR Measurement



SPECIFICATIONS

	AT810A Precision Digital LCR Meter	AT3810A Precision Digital LCR Meter
Parameters	Cs-Rs,Cs-D,Cp-Rp,Cp-D,Lp-Rp,Lp-Q,LS-Rs,LS-Q,Rs-Q,R-X,Z-θrad,Z-θdeg	DCR (AT3810A)
Monitor	Z, D, Q, θr, θd, R, X, G, B, Y, Vac, Iac, Δ, Δ%	
Accuracy	0.05% ±5dgt	
Frequency	10Hz ~ 20kHz (continuous frequency, resolution 0.001Hz)	
Range	L: 0.00001μH-999999H C: 0.00001pF - 999999μF R,Z: 0.00001Ω - 99.9999MΩD:0.00001-9.99999 Q: 0.00001 - 99999.9 Δ%:-999999% - 999999% θ(deg): -179.999° -179.999° θ(rad) :-3.14159 - 3.14159 DCR: 0.00001Ω ~ 99.9999MΩ(only for AT3810A)	
Source	30Ω, 50Ω & 100Ω	
Resistance		
Range	Automatic Manual & Nominal, 9 ranges	
Max Display	6 dgt, principle parameter: 999999 Sub parameter: 999999 Monitor parameter: 999999	
Signal level	0.01V ~ 2.00V (10mV step)	0.01V ~ 2.00V (10mV step) , with ALC function
DC Bias	/	-2.5V~+2.5V
Test speed	30t/s, 10t/s, 6t/s, 3t/s (with average)	40t/s, 10t/s, 3t/s (with average)
Comparator	14-bin sorting, 10- bin GD, 1 -bin NG, 1-bin AUX, 2 -bin principle parameter NG	Count function: Max :999999
List test	10 groups frequency and level scanning test	
Adjustment	Open/short frequency correction, 3 point frequency and load correction	
Files	10 groups files to save user's setting 1 group to save system data real-time	
Interface	RS232C, ExHandler Standard USB disc interface (article 10000 data)	
Others	LCR auto selection, key lock, SCPI instruction set, color LCD, save 999 setsof LCD, trigger delay, build in SCPI & Modbus protocols (AT3810A only)	
Power	Voltage: 90VAC ~ 250VAC Frequency: 50Hz~60Hz Max power: 20VA	
sizes/weight	264 (W)x107(H)x350 (D) , 4kg	
Accessories	ATL501A:Test cable ATL601: Test fixture ATL600: short-circuit slice ATL108:RS232 communication cable	
Options	ATL608 SMD patch test fixture ATL508 SMD patch test fixture	Data Acquisition Software ATL508A SMD Patch Test Fixture