AT3817A DIGITAL LCR METER

CHINESE/ENGLISH OPERATION

264 (W) * 107 (H) * 350 (D)
UNIT: mm

Weight: 4kg

CONTINUOUS TESTING FREQUENCY

10Hz~100kHz

ENHANCED HANDLER INTERFACE

AT3817A is a precision LCR Meter , a fully automatic real-time detection micro desktop instrument controlled by a high -performance 32-bit ARM microprocessor. The instrument can choose any testing frequency between **10Hz ~ 100kHz**, and can choose a testing signal level between 0.01V~2.00V in steps of 0.01V. It has built-in -2.5V~+2.5V programmable DC bias to automatically measure inductance L, capacitance C, resistance R, complex impedance Z, quality factor Q, loss angle tangent D, and phase angle θ (degree), phase θ (radians) and DC resistance DCR.



Power Voltage: 90V-260VAC Frequency: 50Hz~60Hz
Max power: 30VA

The main and auxiliary parameters are all displayed in 6 digits, with two monitoring displays that can simultaneously display Z, D, Q θ R θ d. R, X, G, B, Y, Vac, Iac Δ、Δ% A type of. With an accuracy of up to 0.05%, this instrument can meet the requirements of various component manufacturers, schools, research institutes, and metrology and quality inspection departments for precise testing and mass production.

MODEL	AT3817A
Parameters	Cs-Rs,Cs-D,Cp-Rp,Cp-D,Lp-Rp,Lp-Q,Ls-Rs,Ls-Q,G-B,R-X,Z-θrad,Z-θdeg, **DCR**
Monitor Parameters	Z, D, Q, θr, θd, R, X, G, B, Y, Vac, Iac, Δ, Δ%
Accuracy	0.05%±5dgt ;
Frequency	10Hz ~ 100kHz (continuous, resolution 0.001Hz)
Range	Auto, Manual & Nominal, 9 ranges
Display	L: 0.00001μH-9999.99H C: 0.00001pF – 9999.99mF R,X,Z: 0.00001Ω - 99.9999MΩ D: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**
Signal level	0.01V ~ 2.00V（10mV step）
Test speed	40t/s ,10t/s ,3t/s (1-256 times average)
DC Bias	**-2.5V~+2.5V (0.5%+0.005V)**
Max display	All 6 bits Primary parameter, secondary parameter, monitoring parameter: 999999
Source Resistance	30Ω, 50Ω 100Ω
Comparator	14 -bin sorting, 10-bin GD, 1- bin NG, 1 -bin AUX, 2-bin principle parameter NG
List test	10 groups frequency and level scanning measurement
Calibration	Open/short circle sweep frequency correction, 3 points frequency and load correction
Interface	RS232C, Handler, USB disc
Others	LCR auto selection, Option RS-485, build in SCPI & Modbus 999 sets of LCD storage, Trigger delay, (ALC)
Files	10 group files to save user's setting, 1 group to save system data real-time
Accessories	ATL501E Test cable、ATL601 Test Fixture、ATL600 short -circuit slice、ATL108A Communication cable、ATL103 USB cable
Optional Attachment	ATL608 SMD surface mount fixture, ATL508 SMD surface mount test clamp, ATL508A SMD surface mount test clamp