

## Features

- Four different parameters displayed simultaneously, flexible and comfortable combination
- High speed and efficiency measurement: the fastest 65 times / sec (including display)
- Built-in typical DC bias: 0V/1.5V/2.0V/4.0V/5.0V
- Independent and Low-noise DC source: -10V - +10V continuously adjustable, Resolution: 2.5mV
- Automatical DUT trigger function: Plug & Measure, results and discriminant single displayed
- Powerful list sweep function: variety of different parameters and excitation sources can be mixed sweep test and displayed
- New graphics scanning and analyzing function: support frequency/level/DC bias/DC source
- Complete user correction function: 64 points frequency correction can be applied to multi-channel scanning
- RS232C/USB-CDC/USB-TMC/HANDLER/GPIB interface
- 500 groups of setting for storage/recall

## Brief Introduction

• U2817 series precision LCR meter is a new generation impedance test instrument with high-precision, wide measurement range and six digit resolution. U2817 series can be used for incoming inspection of components, quality control of product line and laboratory use over a wide range of frequency (50Hz to 100kHz), test signal level (10mV to 2V), built-in typical DC bias and DC voltage source output (-10V to 10V). The RS232C, GPIB, Handler interfaces and perfect command system make it easy to build an automatic component test system, communicate with the computer and record the test results.

## Specifications

Measurement Function		
Test Parameters	Z , C, L, R, X,  Y , B, G, D, Q, $\theta$	
Basic Accuracy	0.05%	
Measuring Speed	Fast: 65, Medium: 10, Slow: 5 (meas/sec)	
Equivalent Mode	Serial, Parallel	
Ranging Mode	Auto, Hold	
Trigger Mode	Internal, Manual, DUT, External, BUS	
Correction Function	Open/Short/Load, Full frequency correction, 322 points frequency correction (only for U2817A)	
Graphics scanning Function	Frequency, Level, Bias voltage/Current, DC Source (Option only for U2817A)	
List sweep	10 points frequency, level, DC bias, DC source (option only for U2817A)	
Display type	480x272, 5-inch TFT LCD	
Memory	100 groups and 500 groups (USB disk)	
Test Signal		
Test Frequency	U2817A	50Hz – 100kHz, Resolution: 1mHz
	U2817	50Hz – 100kHz, 16 points
Output Impedance	10 $\Omega$ , 30 $\Omega$ , 100 $\Omega$	
Test Level	U2817A	10mV – 2V, Resolution: 1mV
	U2817	0.1V, 0.3V, 1.0V
Internal DC Bias	0V/1.5V/2.0V/4.0V/5.0V (only for U2817A)	



**U2817A/U2817**

Output DC Source	-10V – +10V, Resolution: 2.5mV	
Measurement Display Range		
Z , R, X	0.01m $\Omega$ – 99.9999M $\Omega$	
Y , G, B	0.0001 $\mu$ S – 999.999S	
C	0.00001pF – 99.9999mF	
L	0.00001 $\mu$ H – 99.9999kH	
D	0.00001 – 9.99999	
$\theta$ (Deg)	-179.9° – 179.9°	
$\theta$ (Rad)	-3.14159 – 3.14159	
Q	0.01 – 99999.9	
$\Delta$ %	-999.99% – 999.99%	
Comparator and Interface		
Comparator	10 bins, BIN0 – BIN9, NG, AUX PASS/FAIL LED displayed	
Interface	RS232C/USB-HOST/USB-CDC/USB-TMC/HANDLER/GPIB (Option) / SCANNER (Option)	
General Specifications		
Temperature & Humidity	0°C – 40°C, $\leq$ 90%RH	
Power Supply	Voltage	99V – 242V
	Frequency	47.5Hz – 63Hz
Power Consumption	$\leq$ 60 VA	
Dimensions (W×H×D)	350mm×120mm×360mm	
Weight	Approx. 3.5kg	

## Order Information

U2817A/U2817 Precision LCR meter

## Instrument Accessories

- U26005 4 terminal test fixture
- U26011 4 terminal Kelvin test clip leads
- U26010 Gilded shorting plate

## Options

- U26006 Axial component test fixture
- U26008 SMD test fixture
- U26009 SMD Kelvin test tweezers
- U10501 1A DC bias board
- U10502 100mA DC bias board
- U10503 DC source board, -10V - +10V
- U10301 GPIB interface
- U10201 PC communication control software