STB8816 Series Precision LCR Meter

Features

- 240×64 dot matrix graphic LCD display
- Humanized operation interface, easy to operate
- 0.02% accuracy (TH2816P), 7-digit reading
  0.05% accuracy (TH2816A+/TH2816B+), 6-digit reading
- 10mVrms - 2.0Vrms programmable test level
- Compatible with legacy bias source control
- High stability, high accuracy
- The fastest speed is about 60 times/second
- Accurate load calibration function
- 30Ω/100Ω selectable signal source output impedance
- 4-point frequency/level/list sweep function
- Direct reading, absolute deviation and relative deviation display
- 12 groups of internal instrument setting storage
- Built-in comparator: 10-bin sorting and bin counting (TH2816P/TH2816A+)
- bins sorting and bin counting (TH2816B+)
- Test level monitoring function
- Keypad lock function

RS232	USB HOST	USB DEVICE	HANDER	GPIB
standard	standard	standard	standard	option

STB8816P/STB8816A/STB8816B

Dimension (mm): 350(W)×122(H)×310(D) Net weight: 6.5 kg

Applications

- Passive components:
  Evaluation of Impedance Parameters for Capacitors, Inductors, Cores, Resistors, piezoelectric devices, Transformers, Chip Components, and Network Components
- Other components:
  Impedance evaluation of printed circuit boards, relays, switches, cables, batteries, etc.

Specifications

Model		STB8816P	STB816A	STB8816B
Display		240×64 dot-matrix LCD display		
Digits		7-digit resolution	6-digit resolution	6-digit resolution
Basic accuracy		0.02%	0.05%	0.05%
Test signal frequency	Range	50Hz - 200kHz	50Hz - 200kHz	50Hz - 200kHz
	Dots	12000 Dots	12000 Dots	37 Dots
Output impedance		30Ω / 100Ω		
AC Test level		10mV - 2Vrms, 10mV steps		
Test parameter		L, C, R, |Z|, D, Q, G, B, X, θd, θr, Vm, Im, △%		
Measurement display range	|Z|, R, X	0.00001Ω - 99.9999MΩ		
	G, B	0.00001μs - 99.9999s		
	C	0.00001pF - 9.99999F		
	L	0.00001μH - 99.9999kH		
	D	0.00001 - 9.99999		
	Q	0.00001 - 99999.9		
	θ(DEG)	-179.999º - 179.999º		
	θ(RAD)	-3.14159 - 3.14159		
	Δ%	-999.999% - 999.999%		

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Measurement terminal		5 terminals	
List sweep		List sweep for up to 4 frequencies, signal levels and DC bias levels	
Graphic scanning		------	
Measuring speed		Fasr+: 16.7ms; Fast: 33ms; Med: 100ms; Slow: 667 ms	
Equivalent circuit		Series and Parallel	
Ranging mode		Auto, Hold	
Trigger mode		Internal, Manual, External and Bus	
Averaging rate		1 - 255	
Correction function		Open, Short and Load corrections	
Display Mode		Direct, ΔABS, Δ%, V/I(V/I monitor), Bin number and bin counter	
Comparator Function		10 Bins, BIN1 - BIN9, NG, AUX	4 Bins, BIN1 - BIN3, NG, AUX
		Bins counting function	
		PASS, FAIL front panel display	
Memory		12 control settings memory for store/recall	
Interface	Control	HANDLER	
	Communication	RS232C, USB HOST, USB DEVICE, GPIB(Option)	
Working temperature, humidity		0°C—40°C, less than 90%RH	
Input power	Voltage	198V—242V AC	
	Frequency	47Hz—63Hz	
	Power consumption	Max 80VA	
Size (mm)		350(W)×122(H)×310(D)	
Weight		6.5 kg	

Ordering Information

STB8816P Precision LCR Meter
STB8816A+ Precision LCR Meter
STB8816B+ Precision LCR Meter

Standard Accessories

SBF0005A 4 terminal test fixture
SBF0011A 4 terminal Kelvin test clip leads
SBF0010 Gilded shorting plate

Options

SBF0047 4 terminal test fixture
SBF0048 4 terminal test fixture
SBF0006 Axial component test fixture
SBF0007A Core inductor test fixture
SBF0008A SMD component test fixture
SBF0009B SMD Kelvin test tweezers
SBF0033 GPIB interface cable
SBF0034 RS232C interface cable
SAX0001 GPIB interface board