

# Component Parameter Test Instruments

## A. TH2810B+ LCR Meter

### Features

- 100Hz,120Hz,1kHz,10kHz 4 typical test frequencies
- 4.3 inch TFT liquid crystal display, Chinese and English optional operation interface
- 6-digit reading resolution
- Maximum test speed:12.5ms, support low frequency and high speed:TX4+3ms
- 10 bins sorting, test sorting is more perfect
- 100 sets of LCRZ instrument setting files, 10 measurements
- Soft power switch
- Support 110V/220V two power supply voltages
- 10-point list sweep, support multi-frequency test sorting
- Ultra-low signal source output offset (<100 $\mu$ V), meeting the needs of large inductor, common mode choke inductor test
- Super impact protection
- Power on state lock button;
- Empty fixture judgment
- Data logging function
- Screen capture function
- Interface function, timing, trigger delay, etc. are more complete



### TH2810B+(TH2810B Upgraded)

Support SCPI,MODBUS protocol

Rack mount (mm): 215(W) x 88(H) x 335(D)

Dimension (mm): 235(W) x 105(H) x360(D)

Weight: 3.6kg

Standard RS232/RS485(option)  USB HOST  USB DEVICE  HANDLER

### 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	TH2810B+
Basic accuracy	0.1%
Test frequency	100Hz,120Hz,1kHz,10kHz
Test parameters	L, C, R,  Z , D, Q, X, $\theta_d$ , $\theta_r$ , Vm, Im, $\Delta\%$
V/I monitor	Yes
AC test signal level	0.1Vrms,0.3Vrms,1Vrms
Signal source internal resistance	10 $\Omega$ , 100 $\Omega$
Test terminal configuration	5-terminal
Test speed (ms/time)	Fast: 19ms;Medium:83ms;Slow: 333ms F $\leq$ 120Hz Fast :4XT+3ms
Zero clearing	Open, Short, Load
List sweep	<ul style="list-style-type: none"> <li>• 10-point list sweep</li> <li>• Each scan point can be individually sorted, support multi-frequency combined test sorting</li> <li>• Scanning test for frequency and AC voltage</li> </ul>
Equivalent Circuit	Series, Parallel
Range mode	AUTO, HOLD
Trigger mode	Internal, External, Manual, Bus
Average times	1-255
Arithmetical operation	Direct reading, $\Delta$ ABS, $\Delta\%$
Delay	Trigger delay, step delay: 0—60.000s, 1ms step
General function	Series, parallel equivalent mode, calibration: open circuit, short circuit, range selection: automatic, manual, trigger mode: INT, MAN, EXT, BUS, keyboard lock function
Comparator	10 bins sorting,BIN1-BIN9,NG,AUX; Bin count function PASS, FALL front panel LED display
Nonvolatile storage	100 sets of LCRZ instrument setting files, 10 test results
External USB storage	Instrument setting file, CSV data file

### Instrument Accessories

- Three core power cord
- TH26048A 4-terminal test fixture
- TH26011CS 4-terminal Kelvin test cable
- TH26010 Gilded shorting plate