



Precision LCR Meter

TH2836 Series



Features

- High precision: using automatic balancing bridge technology, four-terminal pair test configuration
- High speed: the fastest test speed is 5.6ms
- High resolution: 7 inches, 800×480 resolution
- 10-point multi-parameter list sweep function
- Mathematical operation function
- Automatic polarity function of varactor diode
- One-key screenshot function
- One key recording function
- 10-level sorting function, sound and light alarm for sorting results
- Large storage space:
Built-in: 40 sets of setting files
Expansion: 500 sets of setting files, image files, and data recording files can be stored through USB memory
- High compatibility: support SCPI commands, compatible with KEYSIGHT E4980A, E4980AL, HP4284A



RS232	USB HOST	USB DEVICE	HANDLER	LAN	GPIO
standard	standard	standard	standard	standard	option

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Dimension (mm): 400(W) x 132(H) x 425(D)
Net weight : 15kg

Application

- Passive components:
Capacitors, Inductors, Magnetic Cores, Resistors, Piezoelectric Devices, Transformers, Chipsets
Impedance parameter evaluation and performance analysis of hardware and network components, etc.
- Semiconductor components:
Test and analysis of parasitic parameters of LED drive integrated circuits; C-V DC characteristics of varactor diodes; analysis of parasitic parameters of transistors or integrated circuits
- Other components:
Impedance evaluation of printed circuit boards, relays, switches, cables, batteries, etc.

- Dielectric material:
Dielectric constant and loss angle evaluation of plastics, ceramics and other materials
- Magnetic material:
Permeability and loss angle evaluation of ferrite, amorphous and other magnetic materials
- Semiconductor materials:
Dielectric constant, conductivity and C-V characteristics of semiconductor materials
- LCD unit:
C-V characteristics such as dielectric constant and elastic constant

Specifications

Model		TH2836
Display		7 inch TFT LCD Display 800×RGB×480
AC Parameters		Cp/Cs, Lp/Ls, Rp/Rs, Z , Y , R, X, G, B, θ , D, Q, Vac, Iac
DC Parameters		Rdc, Vdc, Idc
Test Frequency	Range	4Hz-8.5MHz
	Resolution	1mHz
Test Electric Level	AC Voltage	4Hz-1MHz: 5mV-2Vrms 1MHz-8.5MHz: 5mV-1Vrms
	Resolution	100 μ V
	AC Current	4Hz-2MHz: 50 μ A-20mA _{rms} 2MHz-8.5MHz: 50 μ A-10mA _{rms}
	Resolution	1 μ A
	DC Voltage	100mV-2V
	Resolution	100 μ V



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DC Bias	Voltage	0V-±10V
	Resolution	100μV
	Current	0mA-±100mA
	Resolution	1μA
Test terminal configuration		Four-terminal pair
Cable Length		0,1m
Output Impedance		100Ω
Typical Measurement Time (speed)		Fast: 5.6ms Medium: 120ms Slow: 230ms
Highest accuracy		1kHz : 0.05% 1MHz: 0.05% 2MHz: 0.1% 5MHz: 0.5% 8.5MHz: 1.0%
Display Range		a: 1×10^{-18} ; E: 1×10^{18}
Cs,Cp		±1.00000aF-999.999EF
Ls,Lp		±1.000000aH-999.999EH
D		±0.00001-9.99999
Q		±0.01-99999.9
R,Rs,Rp,X,Z,Rdc		±1.00000aΩ-999.999EΩ
G,B,Y		±1.00000aS-99.9999ES
Vdc		±1.000000aV-999.9999EV
Idc		±1.00000aA-999.999EA
θr		±1.00000rad-3.14159rad
θd		±0.0001deg-180.000deg
Δ%		±0.0001%-999.999%
Multifunction List Scan		10 dots. Parameter: Measurement parameter, test frequency, AcVoltage, AC current, DC Bias voltage and DC Bias current.
Graph sweep		Optional
Interface		USB HOST,USB DEVICE,HANDLER,RS232C Optional: GPIB
Warm-up time		60 minutes
Input voltage		100-120VAC/198-242VAC, 47-63Hz
Power consumption		80VA
Dimension (WxHxD) mm ³		400x132x425
Weight		15kg

Marketed & Supported by-

Nvis Technologies Pvt. Ltd.

141-A, Electronic Complex, Pardesipura, Indore-452010, India.

© +91-731-4211500, ✉ info@nvisotech.com, 🌐 www.NvisTech.com

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