

GPS

3131B

An all-purpose LCR meter designed with simplicity and dependability

This innovative solution for cost-sensitive LCR applications is accurate and fast in manual or automated applications. The instrument can be used for evaluating LCR components, materials and semiconductor devices and the can output comparison/decision results for sorting components into 5 bins. The user friendliness has been implemented as a design specification. Anyone can use this device and begin taking accurate and repeatable readings immediately. The easy-to-use front panel makes instrument operation totally intuitive. There is no need to search hidden submenus to find the instrument's settings. All settings are indicated on the front panel with high visibility. The GPS-3131B performs basic LCR measurement better than most cost-effective solutions at less than half its price



Key Features

- LCD display with two parameters displayed simultaneously.
- 5-digit main parameter display (L, C, R, Z)
- 6-digit sub-parameter display (Q, D)
- Calibration function: Short & Open sweep frequency for all ranges Short & Open zero setting
- Comparator (sorting) function: 5-bins sorting result
- Automatic parameter selection (according to the DUT)

Ideal for

- Passive component troubleshooting
- Electronic assembly
- Quality control (component sorting)

Technical Specifications

Model	GPS-3131B		
Measurement Range	L	100/120Hz 1kHz 10kHz	1 μ H - 9.999kH 0.1 μ - 999.9H 0.01 μ H - 99.99H
	C	100/120Hz 1kHz 10kHz	1pF - 9.999mF 0.1pF - 999.9 μ F 0.01pF - 99.99 μ F
	R, Z	1m Ω - 999.9M Ω	
	D/Q	0.00001 - 99999	
	$\Delta\%$	0.0001% - 9999%	
Testing Level	0.3Vrms, 1Vrms		
Basic Accuracy	0.25%		
Measurement Frequency Range	100Hz / 120Hz / 1kHz / 10kHz		
Test Speed	Fast: 11 times/second Slow: 5 times/second		
Source Resistance	100 Ω & 30 Ω		
Max Reading	33000		
Range	Automatic & Manual		
Equivalent Circuit	Series & Parallel		
Comparator	5-bin P1, P2, P3, AUX, NG		
Beep	P1, P2, P3, AUX, NG, OFF		

Standard Accessories

Test cable
AC power cord

Power Supply

90V ~ 260VAC, 47Hz ~ 440Hz

Fuse

250V 1A slow melt

Power

Max 10VA

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-3131B	General purpose benchtop LCR Meter	500100

Dimensions

264 x 350 x 107mm / 10 x 14 x 4.2" (w x d x h) approx.

Mass

2.0kg/4.4lbs approx.

Operating

10°C ~ 40°C
85%RH, 40°C, 24hours
≤3000m

Services

1-year warranty (subject to product registration with GPS Ltd)

Visit www.gpslimited.com/register-product
Service and calibration available.

Please contact for more information

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