

GPS-3131B DIGITAL LCR METER

GPS-3131B is a general-purpose LCR meter for incoming inspection of components, quality control, and laboratory use. GPS-3131B is used for evaluating LCR components, materials, and semiconductor devices. GPS-3131B can output comparison/decision results for sorting components into 5 bins.

SPECIFICATIONS:

- ☒ Parameters: L, C, R, $|Z|$, D, Q
- ☒ Testing Frequency: 100Hz, 120Hz, 1kHz, 10kHz
- ☒ Signal Level: 0.3V, 1.0V
- ☒ Testing Speed: Fast & Slow 5 times/second, 2 times/second
- ☒ Source Resistance: 30 Ohm & 100 Ohm
- ☒ Range: 6 ranges, manual or automatic
- ☒ Equivalent: Serial & parallel
- ☒ Terminals: Five-terminal
- ☒ Accuracy: 0.25%

FUNCTIONS:

- ☒ Display: LCD display, two parameters are displayed simultaneously, main parameters: 5 dgts; sub-parameters: 6 dgts
Display A: L, C, R, Z
Display B: Q, D
- ☒ Calibration Function:
Short & Open sweep frequency for all ranges
Short & Open zero-setting for each range
- ☒ Comparator (sorting) Function:
5-bins sorting result: 3-bins GD, 1-bin AUX & 1-bin UG
- ☒ Automatic Parameters Selection:
Selecting the Parameters automatically according to the DUT



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TECHNICAL DATA:

- ☒ Screen: LCD display
- ☒ Testing Parameters: L, C, R, Z, D, Q
- ☒ Testing Level: 0.3Vrms, 1Vrms
- ☒ Basic Accuracy: 0.25%
- ☒ Measurement Frequency Range: 100/120Hz / 1KHz / 10KHz

Measurement Range	L	100/120Hz	1 μ H - 9.999kH
		1kHz	0.1 μ H - 999.9H
		10kHz	0.01 μ H - 99.99H
	C	100/120Hz	1p - 9.999mF
		1kHz	0.1p - 999.9 μ F
		10kHz	0.01p - 99.99 μ F
	R, Z	1m Ω - 999.9M Ω	
	D/Q	0.00001 - 99999	
	$\Delta\%$	0.0001%~9999%	

- ☒ Display Digit: Main parameters: 5 dgt Sub Parameters: 6 dgt
- ☒ Test Speed: Fast: 11 times/second, Slow: 5 times/second
- ☒ Source Resistance: 100 Ohm & 30 Ohm
- ☒ Max Reading: 33000
- ☒ Range: Automatic & Manual
- ☒ Equivalent Circuit: Series & Parallel
- ☒ Correction: Open & Short sweep frequency zero-setting
- ☒ Comparator: 5-bin P1, P2, P3, AUX, NG
- ☒ Beep: P1, P2, P3, AUX, NG, OFF

- ☒ Environment Index: temperature 18°C~28°C humidity : Max. 65% RH
- ☒ Operation: temperature 10°C ~40°C humidity 10~80% RH

- ☒ Power Supply: 90V ~ 260VAC 47Hz ~440Hz
- ☒ Fuse: 250V 1A slow melt
- ☒ Power: Max 10VA

- ☒ Weight: about 2kg

- ☒ Standard Accessories: Test Cable, AC Power Wire