

GPS-

135A

Compact, dual-display handheld LCR meter for R&D, QA and field service



The GPS-135A is a portable, battery-powered LCR meter designed for rapid component measurement and sorting. It measures primary parameters L, C and R with secondary Q/D/ESR/ θ and supports five test frequencies (100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz). A bright dual display, auto-range and SCPI over USB make it equally at home on the bench, production line or in the field.

Key Features

- Measures L, C, R with secondary parameters: Q, D, θ (deg/rad) and ESR
- Test frequencies: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz
- Basic accuracy: $\pm 0.2\%$ (typ.) for primary parameters
- Stable 100 Ω output impedance; 0.6 Vrms test signal (typ.)
- Dual backlit display with sorting, REL/zero, min/max and hold
- USB device interface with SCPI control for logging and automation
- Handheld, battery powered for on-site verification

Ideal for

- Incoming inspection & sorting
- R&D component characterization
- Production QA (pass/fail)
- Field service troubleshooting (ESR checks)
- Educational labs & training

www.gpslimited.com/135A
 For all enquiries, Tel: +44 (0) 208 964 3600
 Email: info@gpslimited.com

Technical Specifications

GPS-135A Handheld LCR Meter	
Measurement items	L, C, R (primary) with Q / D / ESR / θ (secondary)
Frequencies	100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz
Basic accuracy	$\pm 0.2\%$ (typ.) primary parameters
Equivalent circuits	SER (series), PAR (parallel)
Source impedance / level	100 Ω / 0.6 Vrms (typ.)
Display	Dual display, backlit; sorting and deviation
Functions	Auto-range, REL/zero, HOLD, MIN/MAX, comparator bins
Interface	USB device; SCPI remote control
Item	Range
Capacitance (C)	0.01 pF to 9999 μ F (auto-range)
Inductance (L)	0.01 μ H to 9999 H (auto-range)
Resistance (R/Z)	0.0001 Ω to 99.99 M Ω (auto-range)
Dissipation factor (D)	0.0001 to 9.999
Quality factor (Q)	0.0001 to 9999
Phase angle θ	0.00° to $\pm 180.00^\circ$ (or 0.00 to ± 3.142 rad)
ESR	Range per selected C and frequency

Standard Accessories

- Test leads / alligator clips
- Data acquisition software
- Batteries (installed)
- Quick start guide

Power

8.4V, Li-Ion, 1400mAh rechargeable battery

Compliance & Safety

Designed to meet typical handheld LCR meter EMC and safety requirements. Refer to the official GPS-135A manual for full compliance statements.

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-135A	Handheld LCR Meter (includes standard accessories).	501358

Mass

365g/0.8lbs approx.

Dimension

90 x 190 x 31mm(w x d x h) approx.

Operating

0 ~ 40 °C, relative humidity <80%

Storage

-10 ~ 50 °C, relative humidity <80%

Services

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

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