

LCR-Reader[®]-R2



LCR-Reader[™]-R2 is a professional quality, LCR/ ESR-meter, LED/Diode tester, Analog Series Analysis tool and up to 250 kHz test frequency. It provides the perfect solution for testing and identifying Surface Mount Devices (SMD), as well as troubleshooting complex electronic systems.

The unique design combines a pair of gold-plated tweezer probes and a digital LCR meter in a compact, lightweight, battery powered instrument. It does fully automatic, highly accurate measurements of resistance, capacitance, inductance and equivalent series resistance.

SMD are more difficult to test and identify due to their small sizes. LCR-Reader[™] gives a unique way to sort and evaluate loose components and to perform on-board measurements and debugging. Gold-plated tweezer probes are able to reliably grip and make contact with even the smallest SMD components.

Automatic component identification measurements tremendously. LCR-Reader[™] displays component type and simultaneously shows the secondary impedance parameter, such as parasitic resistance for capacitors and inductances. Automatic frequency selection guarantees the best test frequency based on a component's type and value.

LCR-Reader R2 offers the ability to test to a 250 kHz frequency and perform Analog Signature Analysis. Analog Signature Analysis is a circuit board troubleshooting technique that uses an AC sine wave across two points of an electronic component or circuit to determine the health of the board or component.

- Automatic or manual L, C, R, Z, D, Q and ESR measurements
- 0.1% Basic accuracy
- LED/Diode test and DC Resistance
- Up to 250 kHz test frequency
- Analog Signature Analysis
- Component Tolerance/ Sorting
- Sine wave Signal Generator up to 100 kHz
- Supercap DC test mode up to 1 F
- Test signal of 0.1, 0.5 and 1.0 Vrms
- Automatic signal reduction for in-circuit measurements
- Automatic component identification
- Easy-to-use one-handed operation
- 4-way joystick navigation
- Backlit LCD display
- Li-Po battery with micro-USB charging

Test frequency:	100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz, 250 kHz
Test signal:	0.1, 0.5, 1.0 Vrms
Basic accuracy	0.1 %

Measurement Ranges

Resistance R:	10 mΩ to 20 MΩ
Capacitance C:	0.1 pF to 1 F
Inductance L:	10 nH to 100 H

Physical Specifications

Size:	16.6 x 2.3 x 1.4 cm (6.5 x 0.9 x 0.55 in)
Weight:	39 grams (1.35 Oz)
Operating temperature:	0°C to 40°C
Battery Type:	3.7V LiPoli rechargeable 400mAH
Battery Life: (continuous)	Over 7 hours (without backlight) (3 hours charging cycle)