

High-precision handheld LCR meter FNIRSI LC1020E



Model: LC1020E

Manufacturer: FNIRSI

EAN: 5905156102187

Product Code: 1298698

R2,236

High-precision handheld LCR meter FNIRSI LC1020E

The FNIRSI LC1020E is a compact, handheld LCR meter designed for fast and accurate measurements of electronic components. It offers automatic component recognition, a wide test frequency range, dual parameter readout, and high measurement resolution. With adjustable voltage levels, built-in polarization, and advanced calibration, it provides stable and reliable results. A color TFT display, data storage function, USB-C rechargeable battery power supply, and automatic shutdown make the device convenient for everyday use, both in the laboratory and in the field.

Automatic component recognition

The meter automatically identifies the component under test as a resistor, capacitor, or inductor and switches to the appropriate measurement mode on its own. This makes testing quick, intuitive, and

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free from the risk of incorrect settings. With an adjustable frequency range from 100 Hz to 100 kHz, support for multiple frequency levels, and the ability to measure inductance, capacitance, resistance, and impedance, the FNIRSI LC1020E is ideal for both research and development laboratories and service work.

Dual readout and high resolution

The device offers ten times greater measurement precision and a basic accuracy of $\pm 0.05\%$, allowing for reliable analysis of even the most demanding and sensitive electronic components. The large 2.8-inch TFT color display shows two measurement parameters simultaneously, which significantly speeds up analysis and improves the readability of results, while the stable graphical interface allows for comfortable work even during long-term measurements.

Adaptation to the tested component

The device offers five test frequencies and three RMS voltage levels, allowing you to precisely adjust the measurement parameters to a specific component and its characteristics. The built-in internal polarization function stabilizes readings, reduces result fluctuations, and allows for accurate testing of components that are particularly sensitive to voltage changes. With open and short calibration functions, the meter effectively eliminates the influence of parasitic capacitance and test lead resistance. This allows for stable, repeatable, and reliable results regardless of the equipment used, which is crucial in precision measurement applications.

Efficiency in service and production

The FNIRSI LC1020E allows you to set nominal values and tolerance ranges, making it easy to detect components that deviate from the norm. The sorting mode and one-button tests significantly increase work efficiency, especially during quality control, production testing, and mass component selection. The device allows you to quickly lock the current measurement result and start the data recording mode. What's more, it creates clear real-time statistics, allowing you to efficiently analyze results, compare measurements, and significantly speed up your daily work.

Efficiency, convenience, and independence from the workstation

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The built-in lithium-ion battery, USB-C charging, and auto-off function make the meter ideal for field work. Its compact design and full functionality allow you to measure capacitance, resistance, inductance, impedance, and test electrolytic capacitors in series and parallel circuits without the need for additional equipment.

Included in the set

- meter
- data cable
- shorting plate
- Kelvin test clamp
- test leads (black + red)
- user manual

Manufacturer	FNIRSI
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Test frequency	100 Hz, 120 Hz, 1 kHz, 10 kHz, 100 kHz
Basic accuracy	0.3%
Display	2.8-inch TFT LCD display
Display resolution	Main parameter: 4.5 digits Secondary parameter: 4.5 digits
Measurement parameters	Main parameters: AUTO / R / C / L / Z Secondary parameters: X / D / Q / θ (phase angle) / ESR
Measuring range	Inductance (L): 0–100 H Capacitance (C): 0–100 mF Resistance (R): 0–10 M Ω
Internal polarization (Bias)	0.0 V, 0.5 V
Test voltage level	0.1 V, 0.3 V, 0.6 V
Calibration functions	Open circuit calibration, short circuit calibration (Short)

Comparison function	Used to calculate the relative error between the measured value of the component and the nominal value, presented as a percentage, and to filter the results. It is possible to set nominal values and tolerances, with the tolerance range adjustable from 0.1% to 99.9%.
Logging function	Checks whether the measured component data meets the set nominal value and tolerance, recording the number of successful and unsuccessful measurements.
Measuring terminal configuration	Three-terminal, five-terminal
Output impedance	100 Ω
Communication interface	USB Type-C (virtual serial port)
Other settings	Language, screen brightness, and sound settings, auto power off, calibration settings, system information

Category: Meters , GPSR Link: [https://psr-](https://psr-assets.innpro.pl/rc_models/sg_rc_models_tools_and_gauges.pdf)

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Box width: 13,00, Box height: 8,00, Gross weight: 670, PPWR: <https://ppwr.innpro.pl/fnirsi>

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