

FNIRSI LCR-P1 Multifunction LCR Transistor Capacitor Tester – Complete Product Description

The **FNIRSI LCR-P1 Multifunction LCR Transistor Capacitor Tester** is a powerful, all-in-one electronic component measuring instrument designed to deliver accuracy, convenience, and versatility for engineers, hobbyists, students, and electronics repair professionals. This advanced device combines several diagnostic tools into one compact unit, making it the perfect choice for testing, analyzing, and verifying a wide range of electronic components with ease.

Built with an intuitive interface and supported by high-precision measurement algorithms, the FNIRSI LCR-P1 enables users to perform quick and reliable tests on resistors, capacitors, inductors, transistors, diodes, MOSFETs, SCRs, triacs, batteries, and more. It eliminates guesswork, speeds up troubleshooting, and enhances productivity in any workshop or testing environment.

Comprehensive Component Testing

The FNIRSI LCR-P1 is engineered to support an extensive list of electronic components. Whether you are measuring the ESR of a capacitor, checking the inductance of a coil, or identifying the pinouts of a transistor, the device provides accurate and easy-to-read results.

- **Capacitors:** Measures capacitance, ESR, leakage, and V-loss with excellent precision. Ideal for diagnosing faulty electrolytic capacitors in power supplies and amplifiers.

- **Resistors:** Automatically identifies resistance values and tolerances, ensuring quick component verification.
 - **Inductors:** Reads inductance levels accurately, helping users build and repair RF circuits, transformers, and chokes.
 - **Transistors:** Supports NPN, PNP, JFET, MOSFET, IGBT, and more. It automatically detects transistor type, pin configuration, gain (hFE), and threshold voltage.
 - **Diodes & Zener Diodes:** Quickly identifies polarity, forward voltage drop, and breakdown voltage for Zener diodes.
 - **Triacs & SCRs:** Detects functionality and key electrical characteristics for various thyristors.
 - **LEDs & Infrared Components:** Useful for checking LED brightness, polarity, and IR emission.
-

High-Resolution Display & User-Friendly Interface

The FNIRSI LCR-P1 features a high-resolution **2.8-inch LCD color display**, offering crisp visuals and easy readability. All measurement values, waveforms, and component diagrams are displayed clearly, making the device suitable for both beginners and experienced users. The intuitive menu layout ensures fast navigation and reduces the learning curve.

Advanced LCR Meter Capabilities

Unlike basic testers, the FNIRSI LCR-P1 incorporates an advanced LCR meter mode, allowing users to test inductance (L), capacitance (C), and resistance (R) with improved accuracy. It provides multiple test frequencies and stable measurement signals to ensure dependable performance during component characterization.

Built-in Oscilloscope Mode (Depending on Model)

Some versions of the FNIRSI LCR-P1 come with waveform display functionality, effectively serving as a mini-oscilloscope. This feature enables real-time signal viewing, making it an excellent tool for quick voltage waveform inspections and basic signal diagnostics.

Rechargeable & Portable

Equipped with a **built-in rechargeable lithium battery**, the FNIRSI LCR-P1 offers long operating life and convenient portability. It can be used anywhere — on the workbench, in the field, or during travel. The compact design ensures it fits easily in toolkits or storage drawers without taking up excessive space.

Auto Identification & Protection

The tester automatically recognizes most components once placed in the test socket or connected via test leads. This auto-identification feature speeds up diagnostics and reduces the risk of user error.

To ensure safety and reliability, the FNIRSI LCR-P1 includes built-in protection circuitry that safeguards the device when measuring components that may have remaining charges, such as high-value capacitors.

Ideal for Electronics Repair & Education

This multifunction tester is particularly valuable in environments where frequent component testing is required. It is widely used in:

- TV, amplifier, and power supply repair
- DIY electronics projects
- Component matching and prototyping
- School and university electronics labs
- Field servicing and quick diagnostics

Whether you're troubleshooting a faulty circuit or validating components before installation, the FNIRSI LCR-P1 streamlines the process and delivers trustworthy results.

Summary of Key Features

- Multifunction LCR meter and transistor tester
- Tests capacitors, resistors, inductors, diodes, MOSFETs, transistors, SCRs, triacs, and more

- High-resolution 2.8-inch color LCD display
- Auto-identification of most components
- Measures ESR, hFE, pin configuration, leakage, and more
- Rechargeable lithium battery for portable use
- User-friendly interface with fast operation
- Compact, durable, and ideal for beginners and professionals