Domestic Microcomputer Relay Protection Tester



Overview

LND-802 Microcomputer Relay Protection TesterIt can test not only various traditional relays and protection devices, but also various modern microcomputer.

Key Takeaways

A domestic microcomputer relay protection tester is a specialized instrument designed to test, calibrate, and verify the performance of relay protection devices in power systems.

Overview

A microcomputer relay protection tester is used to simulate various operating conditions of electrical systems, such as normal operation, short circuits, and overloads, to evaluate the response and reliability of relay protection devices. These testers are essential for ensuring that relays operate accurately and safely under critical conditions. Key FeaturesMulti-phase Output: Many domestic testers, such as the LND-802, provide four-phase voltage and three-phase current outputs, enabling testing of both traditional and modern microcomputer-based protection devices, including transformer differential protection and automatic switching devices.

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High Accuracy and Stability: Advanced testers use DSP + FPGA control and high-resolution DACs to generate precise waveforms, ensuring accurate measurement of small and large currents. User Interface: Devices often feature Windows-based interfaces with TFT or LCD displays, industrial keyboards, and mouse controls, making operation intuitive and efficient. Portability: Models like TEST-750 are lightweight and portable, with robust aluminum alloy chassis, suitable for field testing.

Synchronization and GP

S: Some testers support GPS synchronization for simultaneous testing at multiple locations, enhancing accuracy in complex systems. Auxiliary Power Supply: Dedicated DC outputs (e.g., 110V/220V) allow testing of relays requiring DC power.

Applications

Protection Function Testing: Verifies correct trip values, response times, and output performance of relays, using methods such as fixed-value testing and inverse-time curve testing. Calibration and Field Testing: Portable testers are ideal for on-site calibration of over-current, over-voltage, and other protective relays.

High-

Voltage and Low-Voltage Testing: Depending on the setup, testers can handle high-voltage microcomputer protection devices or low-voltage devices via current transformers or dedicated sensors.

Technical Considerations

Signal Accuracy: Voltage, current, and frequency outputs must be precise to ensure reliable relay response evaluation. Environmental Factors: Temperature, humidity, and electromagnetic interference can affect test results, so testers are designed for stability under varying conditions. Safety: Proper grounding and careful handling are essential to prevent damage to both the tester and the protection device during testing.

Popular Domestic ModelsLND-802: High-performance, multi-phase output, DSP + FPGA control, GPS synchronization, Windows XP interface. KDJB-702: Miniaturized, modular design, high-fidelity power amplifier, supports laptop connection, suitable for complex calibration. TEST-750: Single-phase, portable, ARM-based microcomputer control, suitable for field testing of over-current and over-voltage relays.

Domestic microcomputer relay protection testers combine precision, portability, and advanced control technology, making them indispensable tools for power system maintenance, relay calibration, and safety verification.

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Article Content

LND-802 Microcomputer Relay Protection Tester

It can test not only various traditional relays and protection devices, but also various modern microcomputer protections, especially for transformer differential

What Is a Microcomputer Protection Relay Tester and How Does

A microcomputer protection relay tester is an electronic device designed to test digital and microprocessor-based protection relays. It generates simulated electrical signals replicating fault

HT-702 Protection Relay Test Set

Microcomputer relay protection tester with a large screen LCD display and flexible and convenient rotating mouse controller. Stand-alone operation has a strong function, can carry out most of the

Microcomputer relay protection tester

What is a microcomputer relay protection tester? Simply put, a microcomputer relay protection tester is a professional instrument used to test the functionality, performance, and

HuaZheng Electric HZJB-1700 Handheld Three phase Relay Protection Tester

The secondary defect elimination tester HZJB-1700 is controlled by single chip microcomputer, which is simple in function and

TEST-330 THREE PHASE MICROCOMPUTER PROTECTION

Test-330 three phase microcomputer protection relay test equipment is the highly efficient relay tester of our company.

Single phase microcomputor protection relay test set

The equipment is suitable for a variety of relay field calibration and performance test. So this model relay test set is a good ideal tool for power engineering company to test over-current relay and over

Protection Relay Testing Equipment

Protection relay test sets, or relay testers, verify relays and microcomputer protections by simulating complex transient, permanent, and conversion faults. This is done to ensure a power system''s

Functional Testing of Microcomputer Protection Devices: Verifying ...

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For testing high-voltage microcomputer protection devices, it is recommended to use a microcomputer relay protection tester capable of simultaneously outputting three-phase voltage and three-phase

TWJB-03B Microcomputer Relay Protection Tester

The TWJB-03B microcomputer relay protection tester meets all on-site testing requirements. It can be used to test various traditional relays and protection devices, as well as various modern

Microcomputer 3 Phase Secondary Current Injection Relay Protection Tester

HZJB-340A Microcomputer Relay Protection Tester is a new,compact microcomputer relay protection tester developed by extensively consulting user feedback and summarizing the advantages and

How the Microcomputer Relay Protection Tester Works

Microcomputer relay protection tester is composed of high-integration, bus-out chip single-chip microcomputer, high-precision current and voltage transformers, high-insulation-strength

3 Phase Microcomputer Protection Relay Test Device

The tester can not only test traditional relays and protective devices, but also test modern microcomputer-based protective devices, especially the differential

Auto Relay Tester Microcomputer Protection Relay Test Set

Auto Relay Tester Microcomputer Protection Relay Test Set, Find Details and Price about Auto Relay Tester and Microcomputer Protection Relay Tester from Wuhan Huayi Electric Power Technology

TEST-330 THREE PHASE MICROCOMPUTER PROTECTION RELAY TEST

This model relay test equipment can independently finish device test in professional fields of microcomputer protection, relay protection, excitation, metering, fault recording, etc. and is widely

Research of the system-on-chip-based relay protection ...

This paper presents a chip-based relay protection technology based on system-on-chip (SoC), which is described from four aspects, namely, the architectural design of the relay protection

Huazheng HZJB-1200 six phase relay tester six phase

Huazheng Electric HZJB-1200 six phase protection relay tester in discount Introduction:Relay protection microcomputer test device plays a key role in

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How to Use a Microcomputer Relay Protection Tester-RDJB-1600Y

Method of use Starting up(1) Connect the tester power cord with AC220V outlet, start main power, after IPC start the Windows 7 system, the tester auto ente...

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