

Huazheng Innovation: The Global Leading Relay Protection Tester Company Delivering Solutions for Modern Grids

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Baoding, Hebei Jan 17, 2026 ([Issuewire.com](https://www.issuewire.com)) - As power systems worldwide evolve toward higher capacity, digital substations, and diversified energy sources, the reliability of protection systems has become a central concern for utilities and industrial operators. Relay protection plays a decisive role in detecting faults, isolating affected sections, and maintaining overall grid stability. In this context, the Relay Protection Tester has emerged as a fundamental tool for verifying protection logic, timing

accuracy, and coordination before systems are energized or returned to service. Positioned within this industry transformation, Huazheng continues to strengthen its presence as a **Global Leading Relay Protection Tester Company**, delivering practical testing solutions aligned with the needs of modern power grids.

A [Relay Protection Tester](#) is designed to simulate electrical quantities such as current, voltage, frequency, and phase, allowing engineers to test protective relays under controlled conditions. Through secondary injection testing, these instruments verify relay settings, pickup values, operating time, and logic behavior without applying primary system current. As protection schemes grow more complex and intelligent electronic devices are widely adopted, accurate and flexible relay testing has become essential for commissioning, maintenance, and troubleshooting across transmission, distribution, and industrial networks.

Industry Trends Shaping Relay Protection Testing

The global energy landscape is undergoing significant change. Renewable energy integration, cross-regional interconnections, and the expansion of urban infrastructure are increasing the complexity of protection schemes. At the same time, utilities are under pressure to reduce outage duration and improve asset utilization. These factors are driving higher expectations for relay protection testing equipment, particularly in terms of precision, automation, and adaptability.

Modern Relay Protection Testers must support multi-phase output, flexible waveform generation, and compatibility with a wide range of electromechanical, static, and microprocessor-based relays. Portable design, intuitive operation, and stable output performance are equally important for field engineers working in substations and industrial facilities. These industry trends form the background against which Huazheng continues to develop and refine its relay protection testing solutions.

Engineering Foundation and Quality-Oriented Development

[Huazheng Electric Manufacturing \(Baoding\) Co., Ltd.](#) was established in 2008 and focuses on the research, development, manufacturing, and service of power testing equipment. The company is located in Baoding, China, close to Beijing, with convenient transportation access and a well-established industrial environment. Its product portfolio includes transformer testers, transformer oil testers, relay protection testers, high-voltage test systems, and circuit breaker testers.

From the outset, Huazheng has emphasized structured quality management and technical discipline. The company operates in accordance with ISO 9001 quality management standards, and its products are designed to comply with CE requirements. Dedicated QA and QC personnel oversee manufacturing and inspection processes to ensure consistent performance and reliability. This quality-focused approach is particularly important for relay protection testers, where measurement accuracy and output stability directly influence testing credibility.

Relay Protection Tester Portfolio with Practical Product Examples

Relay protection testers represent a core product category for Huazheng, with multiple models designed to suit different testing scenarios and user requirements.

The HZJB-1700 Portable Handheld Three-Phase Relay Protection Tester is designed for field

applications where portability and rapid testing are essential. Its compact structure allows engineers to perform three-phase relay testing during substation commissioning and maintenance without complex setup. This model is commonly applied for testing overcurrent, voltage, and frequency protection in distribution networks.

For more comprehensive testing tasks, the HZJB-II Secondary Injection Relay Test Set provides stable output and versatile testing functions suitable for both electromechanical and digital relays. It is widely used by utilities and power engineering companies during protection verification and routine inspection, supporting reliable assessment of relay response characteristics.

The HZJB-1200 Portable Secondary Current Injection Tester, featuring six-phase output capability, is designed for complex protection schemes such as differential and distance protection. This model supports multi-phase and multi-current testing, making it suitable for transmission substations and large industrial systems where coordinated protection is required.

In applications requiring focused and straightforward testing, the HZJB-D Single-Phase Secondary Current Injection Test Set offers a practical solution. It is often used for basic relay checks, educational training, and maintenance work where simplicity and efficiency are priorities.

The HZJB-I Microcomputer Three-Phase Relay Protection Tester integrates digital control with flexible output configuration. It is applied in both laboratory and field environments, supporting detailed relay characteristic analysis and repeatable testing procedures.

By offering a diversified range of relay protection testers, Huazheng enables users to select equipment that aligns closely with their operational needs rather than relying on a one-size-fits-all approach.

Application Scenarios Across Power Systems

Huazheng's relay protection testers are applied across the full lifecycle of power system assets. During substation commissioning, engineers use these instruments to verify relay settings and coordination before energizing equipment, reducing the risk of misoperation. In routine maintenance, secondary injection testing helps identify parameter drift or configuration issues that could compromise protection reliability.

Power engineering companies rely on relay protection testers during retrofit and expansion projects, where existing protection schemes must be validated after system changes. In industrial facilities with dedicated substations, these testers support regular inspections to ensure continuity of supply and equipment safety.

Manufacturers, laboratories, and power testing service providers also apply Huazheng's relay protection testers for development, quality control, and training purposes, where stable output and repeatable results are essential.

International Experience and Market Adaptation

Since 2012, Huazheng has exported power testing equipment to customers in the United States, Brazil, Chile, Vietnam, Indonesia, South Korea, Turkey, the United Arab Emirates, South Africa, and other regions. Exposure to diverse grid standards and operational practices has influenced product optimization, particularly in terms of interface design, output flexibility, and safety features.

Huazheng has cooperated with internationally recognized utilities and industrial enterprises on power system testing and maintenance projects. Practical feedback from these collaborations supports continuous improvement and ensures that relay protection testers remain aligned with real-world engineering requirements.

Service Capability and Long-Term Collaboration

In addition to product development, Huazheng places strong emphasis on [technical support and customer communication](#). The company is expanding its overseas agent network to provide localized after-sales service, technical guidance, and faster response times. OEM cooperation is also supported, allowing partners to integrate Huazheng's relay protection testing technology into customized solutions for specific markets or applications.

This service-oriented approach reflects the understanding that relay protection testing is not a one-time activity but an ongoing process throughout the lifecycle of power system assets.

Looking Ahead: Reliable Protection for Evolving Grids

As modern grids continue to evolve, relay protection systems will remain a cornerstone of power system security. Accurate and adaptable Relay Protection Testers are essential for ensuring that these systems perform as intended under increasingly complex operating conditions.

Through continuous innovation, structured quality management, and international project experience, Huazheng continues to strengthen its role as a reliable partner in the global power testing industry. By focusing on practical application and long-term value, the company supports utilities and engineers worldwide in building safer and more resilient power networks.

For more information, please visit <https://www.huazhengtestequipment.com/>.

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Media Contact

Huazheng Electric Manufacturing (baoding) Co., Ltd.

*****@bdhuazheng.com

Building 9-3, High Tech Smart Valley, 3099 Xiangyang North Street, Baoding, Hebei, China

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