

leagend Launches RT200 to Dominate the Internal Resistance Tester Market

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SHENZHEN, GUANGDONG, CHINA, April 28, 2025 /EINPresswire.com/ -- In today's technology-driven world, batteries power everything from portable gadgets and electric vehicles to backup power systems and renewable-energy installations. Yet despite their ubiquity, batteries remain one of the most misunderstood components in modern electronics. Assessing battery health before failure is critical to avoid costly downtime, unexpected breakdowns, and premature replacements. Enter the leagend RT200: a highly precise [internal resistance tester](#) engineered to deliver reliable, actionable insights into battery condition, so users can maintain peak performance and extend the life of every cell.

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Arthur Kingsly



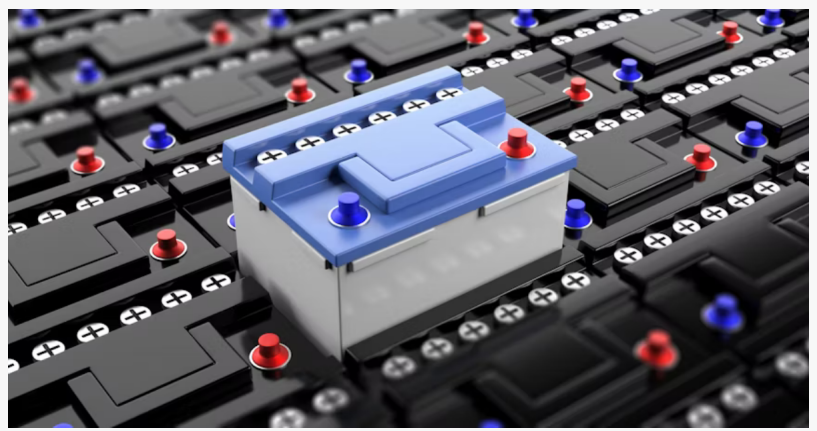
Internal Resistance Testing: The Gold Standard for Battery Lifespan Evaluation

At the heart of leagend RT200's capability is its internal resistance test, the industry's most stable and trustworthy indicator of battery health. As a battery degrades, its internal resistance naturally rises—an effect caused by plate sulfation in lead-acid cells, electrolyte breakdown, or electrode wear in lithium chemistries. Unlike open-circuit voltage, which can remain deceptively high even as capacity wanes, internal resistance offers a direct,

quantifiable measure of aging and performance decline. leagend RT200 applies a controlled test current and measures the voltage drop with exceptional accuracy, delivering results that can be trusted without damaging the cell under test.

Automated Test and Save: Effortless Data Logging

Manual testing and record-keeping are time-consuming and prone to error. leagend RT200 eliminates these pain points with fully automated measurement and storage. With a single button press, the device measures both internal resistance and open-circuit voltage, then instantly archives the readings in its onboard memory. Whether conducting routine fleet inspections or troubleshooting individual units, the user will have a chronological history of every test at fingertips—no spreadsheets, no transposition mistakes, and no data of questionable integrity.



battery internal resistance tester



leagend

Unmatched Test Range: From Micro-Ohms to Hundreds of Ohms

One of the standout features of leagend RT200 is its incredibly broad measurement span. Capable of accurately testing batteries and components with internal resistance from $1\ \mu\Omega$ (one-millionth of an ohm) up to $200\ \Omega$, leagend RT200 handles everything from high-capacity traction batteries to tiny coin cells used in consumer electronics. Voltage tolerance is equally impressive: the unit accepts input voltages from 0V to 100V, ensuring compatibility with virtually all common battery types and configurations. This versatility makes leagend RT200 an indispensable tool for laboratories, manufacturing lines, service centers and field technicians alike.

Wide Application Spectrum: Beyond Just Batteries

While specifically designed for battery health evaluation, leagend RT200's precision measurement capabilities extend to non-battery components and systems as well. Quality-control engineers routinely use it to verify resistor modules, bus bars and power-distribution components. In manufacturing, its fast, repeatable measurements help ensure every product meets exact resistance specifications. For service professionals, leagend RT200 can assess contact resistance in switches, connectors and harness assemblies—transforming a specialized battery-tester into a general-purpose diagnostic instrument.

Built-In Protection System: Safety Meets Reliability

High-stakes testing requires both accuracy and protection. leagend RT200 incorporates a robust suite of safety features to guard against accidental mishaps. Short-circuit protection prevents damage to the unit and the device under test if probes slip or connections are reversed. Over-current protection automatically limits the test current in fault conditions, preserving battery integrity. Furthermore, leagend RT200 allows reverse polarity connection without harm, making it virtually foolproof in hands-on environments. These built-in safeguards mean users can spend less time troubleshooting test equipment and more time focusing on accurate diagnostics.

Elevate Battery Maintenance Strategy

In an era where downtime is measured in lost revenue and compromised safety, proactive battery health monitoring is non-negotiable. [leagend battery internal resistance tester RT200](#) delivers precision, versatility and robust data management in a single handheld package. By quantifying internal resistance with laboratory-grade accuracy, automating data logging, accommodating a vast range of voltages and resistances, and protecting against user error, leagend RT200 empowers technicians and engineers to make informed maintenance decisions—before problems escalate. Upgrade the toolkit with leagend RT200 and transform how the users evaluate, manage and extend the life of batteries and electrical components.

leagend, a top manufacturer of battery testers, battery monitors, 8-step battery chargers, OBD II scanners and thermal imagers, thanks to its leading technologies and algorithms in the industry, has launched its professional internal resistance testers to dominate the internal resistance tester market and to present its leading position in the global markets.

[leagend Optoelectronics Co., Ltd.](#) has been playing a vital role in the global market for about 20 years as a top technology-oriented and product-oriented high-tech manufacturer. By 2025, leagend's R&D investment ratio has been up to 40% and its ratio of technician and engineer staff has been up to 50%. And it is also robust in the innovation fields by having over 60 copyrights, over 60 inventions and relative patents and over 20 certificates.

Arthur Kingsly

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