

TÜV Rheinland: Certified Battery Test for Battery Electric Vehicles Creates Trust on the Used Car Market

Battery Quick Check accurately records the condition of the drive battery / Detailed State of Health report is certified by TÜV Rheinland / Precise residual value calculation possible / Procedure can be efficiently integrated into lease take-back and workshop processes / www.tuv.com

Cologne, August 29, 2023. The [Battery Quick Check GmbH](#), a joint venture between [TÜV Rheinland](#) and battery analytics specialist [TWAICE](#), now makes it possible to precisely evaluate traction batteries of used electric vehicles. Certified by TÜV Rheinland, Battery Quick Check creates a detailed report on the actual condition of the traction battery. The new battery test provides an important basis for reliably determining the performance and value of a used e-car. "The 'State of Health' displayed by the vehicles' battery management systems does not provide a reliable indication of the actual condition of the vehicle's battery," says Dr. Matthias Schubert, Executive Vice President Mobility responsible for TÜV Rheinland's global mobility business. "Practical experience shows that the values displayed and those actually measured often differ greatly. Only a precisely assessed battery condition also enables a precisely assessed residual value."

Battery certificate makes value and performance of used e-cars transparent

The drive battery is the most valuable component of an electric vehicle. In some cases, the battery accounts for more than 50 percent of the value of new vehicles. But because it was previously impossible to accurately diagnose the condition of the battery, it was not possible to determine the residual value of used e-cars. The data-based Battery Quick Check now reliably determines the actual battery condition. It can be performed stationary, for example in a workshop. The battery certificate bears a QR code that can be used to view results online, thus ensuring traceability.

Jump-starting a functioning used car market

Battery-electric vehicles now account for almost one-fifth of all new passenger car registrations in Germany, and the stock now totals more than 1.3 million electric vehicles. "Nationwide electromobility for individual transport will only become realistic if a functioning used car market for e-cars also develops," explains Katharina Alamo Alonso, Managing Director of Battery Quick Check GmbH. "With

Battery Quick Check, a high-quality procedure is now coming onto the market that gives a realistic picture of the remaining capacity of the traction battery, works very efficiently and provides reliable data. Vehicle owners, car dealerships and workshops as well as marketers of fleet vehicles benefit from true transparency. The common winner is the used car market, because confidence in used electric vehicles increases."

Accurate results with little time required

For the battery test, specialists in the workshops use the on-board diagnostic (OBD) system with a vehicle's OBD-2 interface. The Battery Quick Check relies on a software-controlled load on the vehicle battery via diagnostic device and wallbox during the charging process. It can be easily integrated into workshop processes. Only about five minutes are needed for a specialist to work on the vehicle; the rest is automated within around 90 minutes.

A unique feature of the Battery Quick Check is that the respective battery cells were measured in the laboratory in their new condition and reference values were generated. This means that the Battery Quick Check delivers exact results from the very first measurement, which can be reproduced at any time.

The target customers for the new service are car dealerships, workshop chains, leasing companies and corporate fleet management. Private customers can use the service via their car dealership or workshop.

The Battery Quick Check can be carried out by TÜV Rheinland assessors from August 31, 2023. The Battery Quick Check will then also be available in garages from September 15 via Hella Gutmann, the first partner for diagnostic hardware. Other hardware partners will follow. By the end of this year, the battery test will be offered for around 40 vehicle models, corresponding to a market coverage of around 50 percent, which will be further expanded in stages. The recommended retail price for the Battery Quick Check is 149 euros.

About TÜV Rheinland

Safety and quality in almost all areas of business and life: That's what TÜV Rheinland stands for. The company has been active for more than 150 years and is one of the world's leading testing service providers. TÜV Rheinland has more than 20,000 employees in over

50 countries and generates annual sales of around 2.3 billion euros. TÜV Rheinland's highly qualified experts test technical systems and products around the globe, accompany innovations in technology and business, train people in numerous professions and certify management systems according to international standards. In this way, the independent experts ensure trust along global flows of goods and value chains. Since 2006, TÜV Rheinland has been a member of the United Nations Global Compact for more sustainability and against corruption. Website: www.tuv.com

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