Press release

Testing grounding systems efficiently

Software-assisted, automated solution with HGT1 handheld tester

<Klaus, Febuary 1, 2018> OMICRON now offers a software-supported measurement for ground impedance and step and touch voltages. By combining the handheld tester HGT1 with the Primary Test Manager (PTM) software, all the necessary tests can be performed with full software support and the asset “grounding system” can also be managed in PTM.

Optimized for mobile testing solutions

Ground impedance and step and touch voltage measurements need to be performed at various locations inside and outside of a substation. For this reason, we optimized the PTM software with a mobile tablet solution. With this new test system, voltage measurements for determining the ground impedance can be done quickly and easily on site.

GPS-supported recording for measurement points

The process of logging and recording measurements has also been simplified thanks to this new device combination. In PTM, the user can either upload an image file or select an area of an online map. If a GPS signal is available, the corresponding geocoordinates are stored for each measurement point. The distance to the reference point is determined automatically. The measurement points can also be entered manually by tapping on the map.

Assessment according to EN 50522 or IEEE 80 standards

PTM can perform an automated assessment of step and touch voltage measurements based on EN 50522 and IEEE 80 standards. Depending on the standard selected in PTM, the relevant specifications are transferred to the HGT1 and automatically recorded for each measurement point.

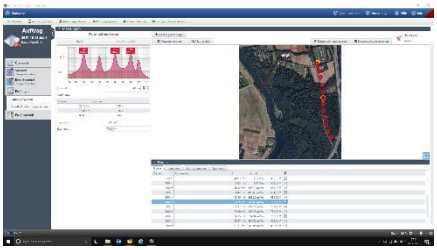
Measurement without interference

The HGT1 also has a special detection algorithm which identifies the recurring current injection of the source and therefore only records the relevant data. Incorrect measurements such as those resulting from the test probe that has come into contact with the test object, can thus be excluded.

Images

Quick and easy Step and Touch Voltage measurement using HGT1 and PTM software

HGT1 with Tablet running PTM software



Primary Test Manager (PTM), showing the recorded GPS measurement points

Company profile

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 150 countries rely on the company's ability to supply leading edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with our strong network of sales partners is what has made our company a market leader in the electrical power industry.

Press contact

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