

Lahnau, March 2015

Press release

Legally secure power quality analysis

UMG 512 – the new flagship in the portfolio of Janitza electronics GmbH

The Class A power quality analyser UMG 512 has mastered all of the disciplines in its field, such as constant monitoring of the power quality, harmonics analysis with network problems, checking the internal supply network according to EN 61000-4-7, EN 6100-4-15, EN 61000-4-30, etc. Through certification class A according to IEC61000-4-30 it is also a reliable reference in cases of disputes, for documentation of the power quality for customers and regulatory authorities, or for fault analysis with problems in the power supply. This subject has further gained in importance this year, due to a ruling by the Federal Supreme Court (file ref.: VI ZR 144/13). In the opinion of the Federal Supreme Court, electricity is a product according to § 2 of the German Product Liability Act (ProdHaftG). As a result, the distribution system operators are liable if electrical equipment is damaged due to poor power quality. The court expressly rejected an exemption from liability through the Low Voltage Grid Connection Ordinance (NAV).

The UMG 512 is designed to record the large quantities of data that occur at its high sampling rate of 25,600 Hz or during a continuous true RMS measurement. To ensure that the quantity of measured values is retained even if the data network fails, the unit is equipped with a large on-board measurement data memory with a capacity of 256 MB. Thanks to the large memory, PLC functions such as alarm management can also be implemented.

In addition to two digital and analogue channels respectively, there is an input for temperature measurement and two additional RCM channels.

The large, colour graphic display is intuitive to operate and provides easy access to the many functions and measuring points. The display can present measured values and results not only in numerical format but also as bar charts and line graphs. Current and voltage can be displayed in waveform. In addition, the GridVis[®]-Basic software package included in the scope of supply also simplifies evaluation and documentation.

The communication architecture also leaves no wish unfulfilled. The various Ethernet protocols ensure the cost-efficient remote monitoring of critical processes, for example. As a Modbus gateway, the UMG 512 can economically connect subordinate measurement devices without an Ethernet interface.

The device-specific homepage for the measuring devices is ideal for users or target groups within a company, who do not wish to install the GridVis[®] software or do not require it. For access to this, the user simply requires a conventional web browser and an Ethernet connection (or a local patch cable).

The UMG 512 utilises the BACnet protocol for use in building communication.

Janitza electronics GmbH

Janitza a German enterprise was founded in 1961 and is since almost 50 years active in the field of development and production of systems for efficient usage of electricity, energy measurement and cost reduction.

Janitza electronics GmbH is nowadays globally well known as supplier of smart energy management systems (ISO 50001), energy measurement devices, class-A-power quality monitoring systems, power analyzers, power factor controllers, and power quality solutions, such as PFC-systems and harmonic filters.

Our UMGs, GridVis® software and components unite 3 solutions – energy management, power quality monitoring and residual current monitoring (RCM) – within a common system environment.

Our customers appreciate the consistent range of products and solutions for a modern energy management (e.g ISO 50001).

Due to the scalability of products and solutions energy management systems of Janitza can also be introduced gradually.

Janitza stands for highest quality standards, high innovation rate and products with latest features produced with the most modern production technology.

The regional expertise of our engineers offers from consulting and concept design through to commissioning bespoke solutions.

After commissioning, we assist in the maintenance and support systems. The regularly scheduled training sessions give our customers the safe handling of the subject areas of energy management and power quality, but also with Janitza products and system solutions.

www.janitza.com

Image captions

Image 1: The UMG 512 power quality analyser guarantees continuous information exchange and can even be used for complex projects such as industrial operations, hospitals, universities, airports, etc. at any time.

Image 2: The UMG 512 performs power quality measurements in top quality thanks to its special functions.

((Image source)) Janitza electronics GmbH

Press contact:

Janitza electronics GmbH

Ms Stefanie Hollingshaus
Marketing
Vor dem Polstueck 1 – 35633 Lahnau – Germany
Phone: +49-6441-9642-539
Fax: +49-6441-9642-30
Email: stefanie.hollingshaus@janitza.de
Web: www.janitza.de

No. of characters: 2,812

No. of words: 448

No. of images: 2