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Press release

Efficient power measurement, locally or via the cloud

Janitza electronics GmbH brings a particularly cost-efficient energy measuring device with Ethernet interface to the market. The UMG 96RM-EL is the little brother to the UMG 96RM-E. Typical applications are low voltage and medium voltage distribution systems. The device is intended for the measurement and calculation of electrical variables such as active energy (kWh), voltage, current, power, harmonics (up to the 40th harmonic), etc. Inputs are available for three voltage measurements and three current measurements (via current transformer .../5A or .../1A). The real effective values (TRMS) of the voltages and currents connected to the measurement inputs are measured here. The UMG 96RM-E measures continuously and calculates all effective values over a 10/12 period interval (200 ms).

The measurement results can be displayed directly on the device, thanks to the large, rich-contrast LCD display, and read off via the Ethernet interface and further processed. Reliable and quick data transfer and easy integration into the network are achieved thanks to the Ethernet connection, as well as communication via Modbus/RS485. A push function is already integrated for the Janitza Energy Portal (www.energy-portal.com), through which visualisation of the measurement data and the benchmarking of various sites becomes child's play; and all this without costly investment in data servers, software or other IT equipment.

The UMG 96RM-EL can be programmed in several ways. This is possible either via the programming and analysis software GridVis[®] (GridVis[®]-Basic included in the scope of supply) or directly via the LCD display. Measurement data can be correspondingly called up via various channels. The compact UMG 96RM-EL ensures detailed logging of the power data and the load profile, and is available right now at a list price of EUR 275.

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: Energy measurement device with Ethernet interface UMG 96RM-EL.

Image 2: Illustration of the harmonics in the form of a bar chart.

Image 3: Example of a dashboard with a line chart (load profile) and the power value displayed using an analogue pointer display.

Image 4: Heat map (spectral analysis) to determine peak loads that drive costs. The scroll bar in the chart's header area can be used to adjust the threshold values individually.

((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

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