

## Multifunctional energy analyzer – UMG 806



COMPACT, MODULAR  
ALL-ROUNDER

Protect systems & measure flexibly

**Janitza®**

# TRANSPARENCY ENSURES SAFETY

## Improve system availability cost-effectively

System availability is a critical factor in ensuring successful operations. Unscheduled downtime and technical faults can cause considerable costs and also have a severe impact on productivity.

The UMG 806 multifunctional energy analyzer is handy in such cases. It helps identify sources of interference, assists with energy monitoring and records accurate measurement data every 15 minutes to fulfill legal requirements and also assist with cost reporting. The UMG 806 has a modular design for ease of expansion, and can be flexibly amended to handle a wide range of requirements and environments. Furthermore, the UMG 806 can be readily integrated into existing systems. Its compact design and associated modules mean you can install the energy analyzer easily into your switchboard cabinets, saving on space.

## Flexible use

The energy analyzer UMG 806 is available as two different variants to ensure optimal flexibility: the UMG 806-LP and the UMG 806. Both versions have three optional modules, namely an Ethernet communications module, an analog in-

put module and a digital input module. This has you covered for a wide range of applications. Both variants differ in terms of the measurement inputs and are otherwise identical in terms of functions and specifications.

## UMG 806-LP

The UMG 806-LP provides measurement inputs for the connection of low power converters. These converters are characterized by an extremely low secondary side output voltage. Due to the low-level signal on the transformer cable, the secondary side of the transformer must not be short-circuited in open operation. This enhances safety during installation whilst also making integration much easier. Furthermore, low-power transformers are often more cost-effective than many traditional types of transformer, making them a more cost-effective alternative.

## UMG 806

The UMG 806 is ideal in situations where conventional transformers have already been installed into the system. It can be seamlessly integrated into existing measurement infrastructure.

# AT A GLANCE



UMG 806  
Part no.: 1402041



UMG 806-LP  
Part no.: 1402042



806-EC1 module  
Part no.: 1402051

## PERIPHERALS

- 4 current measuring channels via current transformer 1/5 A or a low-power converter with 333 mV
- Residual current detection
- Thermistor input
- Pulse output

## COMMUNICATION

- Modbus RTU on board
- Modbus-TCP – per module
- SNMP V2c – per module

## POWER QUALITY

- Harmonics current up to the 31st harmonic
- 4 MB of internal data memory

## RESIDUAL CURRENT MONITORING

- RCM input on board
- Adjustable limit values with alarm if exceeded

## UNIVERSAL RANGE OF APPLICATION

- Suitable for top-hat rail use in all sectors

## ENERGY CONSUMPTION

- Digital drag indicator
- Electrical characteristics and energy consumption

## MODULE 806-EC1

The Ethernet communications module means you expand both an Ethernet interface as well as the following protocols:

- Modbus TCP
- SNMP V2c





# CREATE TRANSPARENCY

## Discover faults, reduce costs

Fine-grained energy monitoring is the key to precisely monitoring and controlling energy flows at all levels. This is the only way to increase efficiency and reduce costs. The multifunctional energy analyzer UMG 806 is particularly suitable for such fine-grained measurements, is cost-effective and can be readily integrated into existing systems.

With the UMG 806, you can quickly respond to network faults or events such as undervoltage or overvoltage. This is key when it comes to avoiding expensive damage and downtime. Identify deviations and quickly recognize sources of interference. Accurate, continuous monitoring of energy flows and power quality via the UMG 806 make it possible. Be proactive and increase the efficiency and protection of your systems.

## Reliable monitoring of residual currents

Avoid system faults and lower the risk of fires by constant residual current monitoring (RCM) with the UMG 806. The

energy analyzer reliably detects gradual residual currents that are caused due to an insulation fault and high operating currents whilst helping you quickly recognize any deviations. This means you can act before fuses or residual current detectors (RCD) switch off affected systems and socket power circuits or before damage or downtime occur.

The UMG 806 is simple to use and makes it possible to set out specific limit values where you are made aware immediately if these are exceeded. You can then take action before serious damage occurs. Furthermore, continuous residual current monitoring with the UMG 806 means there is no need for the insulation test in accordance with DGUV V3. This reduces your workload as well as the number of shut-downs that are required.

Preventative monitoring with the UMG 806 efficiently protects your systems. This enables you to lower costs whilst ensuring the safety of your electrical systems.

## COMPANY PORTRAIT

Headquartered in Lahnau, Hesse – situated between Wetzlar and Giessen – Janitza develops and manufactures a comprehensive product range for the German and international markets. Janitza provides its customers with comprehensive solutions for energy meters, current transformers and communications equipment as well as complete energy management systems.

## OUR PORTFOLIO

The extensive Janitza product portfolio ranges from current transformers to measurement devices, from communication equipment to the IT environment and also from software solutions to data analysis. Janitza IT solutions, device apps and GridVis® power grid monitoring software are ideally coordinated for our digital instruments.



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Current information  
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