

## Modular energy measurement device – UMG 806



COMPACT, MODULAR  
ALL-ROUNDER

# MEASURE ENERGY CONSUMPTION AND POWER QUALITY

## UNIVERSAL ENERGY MEASUREMENT DEVICE

Qualified findings concerning energy consumption and power quality can only be obtained with measurements that look beyond the feed point. Finding sources of interference or energy wasters requires the capture of data at many points in the network. The granularity (resolution) of the measurement is of decisive importance. The Janitza UMG 806 is an ideal solution for this task. This energy measurement device is an all-rounder for use

across a broad spectrum and supports modular expansion as needed. It is suitable for measurement and monitoring of electrical characteristics and energy consumption data as well as for monitoring residual currents and power quality parameters, such as harmonics current. Typical applications include data centers and industrial energy distribution systems, for example.



*Busbar feeders in a computer center*

# COMPACT AND ECONOMICAL

## MODULAR DIN-RAIL MEASUREMENT DEVICE WITH RESIDUAL CURRENT MEASUREMENT

The UMG 806 energy measurement device offers the right solution for various requirements. The high-performance basic device is ideally suited for cost-oriented applications and features Modbus RTU. It offers the ability to both measure and record residual currents, among other features. Continuous monitoring of the residual current enables dangerous fault currents to be detected at an early stage, thereby avoiding damage to the system

as well as production downtimes. The UMG 806 can be enhanced with three modules: the Ethernet communication module, the analog input module and the digital input module.

An added plus is the compact design of the measurement device and the modules. This allows optimal usage of the typically scarce space available in the switchboard cabinet.



# AT A GLANCE

## PERIPHERALS

- 4 voltage / 4 current channels
- Residual current measurement
- 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
- With EI1 module, compatible with RCM 202-AB, for retrofitting of Type A and Type B measurement

## UNIVERSAL RANGE OF APPLICATION

- Ideal for DIN rail applications in data centers and industry



More information can be found at:  
<https://www.janitza.com/umg-806.html>



# 806 Modules

## 806-EC1 MODULE

The Ethernet communication module enables enhancements to support the following protocols:

- Modbus TCP
- SNMP V2c

## 806-EI1 MODULE

The analog input module has inputs and outputs for monitoring and evaluating external signals and sensors.

- Inputs:  
four at 4 ... 20 mA
- Outputs:  
two relay outputs

## 806-ED1 MODULE

The digital input module enables integration of digital inputs and relay outputs.

- Inputs:  
four digital inputs
- Outputs:  
two relay outputs



\*The basic device is compatible with every type 806 module

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