

## Modular Energy Measurement Devices – UMG 96-PA Series



# MODULAR ENERGY MEASUREMENT DEVICES

with MID Certification

**Janitza®**

# CREATE ENERGY DATA TRANSPARENCY

## **GAIN CONTROL OVER YOUR ENERGY CONSUMPTION**

Getting a good overview of your energy consumption is a decisive factor for success. To obtain transparency, however, collecting data at the feeder is not enough. Instead, energy data needs to be collected and analyzed across all company divisions and network levels. This enables businesses to monitor consumption and detect sources of interference and energy wasters.

The UMG 96-PA series is ideally suited for collecting and monitoring electrical measured values. Collecting data in this way enables not only energy management, but also power quality and residual current monitoring in a single device.

Residual currents can be detected at an early stage and equipment damage and production downtimes avoided. All devices of the UMG 96-PA series allow a measurement up to 500 V without voltage transformers. With the internal measured value memory, data are retained even if communication is interrupted. The UMG 96-PA-MID+ version also allows companies to record energy data relevant for billing.

All UMG 96-PA versions are delivered in the practical size of 96 x 96 mm. This facilitates easy integration of the devices in switch cabinets.





## Product Series – UMG 96-PA



### UMG 96-PA

Item no. 52.32.001 (90 ... 277 V AC/90 ... 250 V DC)

Item no. 52.32.002 (24 ... 90 V AC/DC)

- Modular design with Modbus gateway (TCP/IP) and optional Ethernet module
- Comprehensive functions and versatile range of applications
- Active energy class 0.2S



### UMG 96-PA-MID+

Item no. 52.32.004 (90 ... 277 V AC/90 ... 250 V DC)

- MID certification to Directive 2014/32/EU
- Tamper-proof installation possible
- Serial meter readings as per PTB-A 50.7 with separate measuring data storage for 2 years



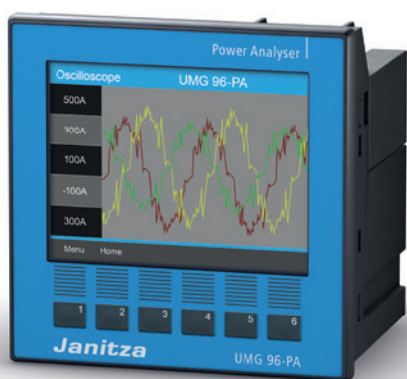
### MODULE UMG 96-PA-RCM-EL

Item no. 52.32.010

- Ethernet interface
- 2 residual current inputs
- Temperature measurement
- 4th current input

# AT A GLANCE – UMG 96-PA

## BASIC FUNCTIONS OF THE UMG 96-PA SERIES



Modular energy measurement device –  
UMG 96-PA

### USER-FRIENDLY & EASY INTEGRATION

- Easy installation due to front panel size 96 x 96 mm
- Color graphic display and intuitive user guidance
- Overvoltage category 600 V CAT III
- For use in TN and TT systems

### ENERGY MANAGEMENT

- Continuous energy monitoring
- Identify savings potentials
- Lower your energy costs
- Fulfill all tax and regulatory requirements

### SAFEGUARD POWER QUALITY

- Reliable, highly-available power supply
- Avoid production downtimes
- Maximize operating times & preventive maintenance
- Avoid quality deficiencies in products
- Detect harmonics current up to the 40th order

### INTERFACES

- 3 digital inputs
- 3 digital outputs
- RS-485 interface



Module UMG 96-PA-RCM-EL

### PLUG-IN MODULES

- Neutral conductor measurement (I4 – current measurement)
- Residual current measurement or DC power measurement
- Temperature measurement
- Ethernet interface and Modbus gateway

### RESIDUAL CURRENT MONITORING

- Continuous monitoring of residual currents
- Cable break detection
- Supports fire and personnel protection
- Higher system availability

# UMG 96-PA-MID+



## ENHANCED OPTIONS AND RECORDING OF DATA RELEVANT FOR BILLING

### Additional features and certification

- MID certification to 2014/32/EU
- Recording of energy values relevant for billing
- 1A / 5A current transformer, optional
- 100 V voltage transformer
- Logbook for recording changes of variables of legal relevance (such as CT ratios)
- Password protection
- Terminal covers for the application of lead seals
- When used with the Ethernet module, additional connection options for up to 30 simple MID energy meters as slave devices, e.g. of the type B23 312-10J
- All functions of the basic device and its modules are retained



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