evices 7 suring Š Sho

Janitza

neutral conductor up to a max.

Three-conductor / four-conductor (L-N, L-L)

National certification according to PTB-A 50.7 Effective value from periods (50/60 Hz)

Use in three-phase 4-conductor systems with grounded

Use in three-phase 3-conductor systems ungrounded up to a max.

APPs: Measured value monitor, EN 50160 & IEC 61000-2-4 Watchdog

Software for energy management and network analysis

Item number

Supply voltage

Sampling rate 50/60 Hz

Residual current inputs

Short-term interruptions

Class A per EN 61000-4-30

Memory min. / max. values

Active energy class

Digital / pulse output

Analogue output

Thermistor input

Harmonics V / A

Transients

Accuracy V: A

Digital inputs

Memory size

RS485

Ethernet

SNMP

OPC UA

BACnet IP

Profinet

Protocols

Modbus RTU

Modbus gateway

Profibus DP V0

Integrated logic

Web server / e-mail

Fault recorder function

Peak load optimisation

D-Sup-9-connector (Profibus)

Modbus TCP/IP, Modbus RTU over Ethernet

Current measuring channels

Distortion factor THD-U /THD-I in %

Short-term flicker / long-term flicker



UMG 103-CBM (UL certified)

277 / 480 V AC

- / •

5.4 kHz

10 / 12

3

1. – 40.

0.2%: 0.2%

0.5S (.../5 A)

4 MB

Comparator

GridVis®-Basic



UMG 20CM

230 / 400 V AC

90 - 276 V AC; 90 - 276 V DC

•/•

20 kHz

10 / 12

20*11

20*11

1. - 63.

1%: 1%

768 KB

Current threshold values per channel

GridVis®-Basic

-



Module 20CM-CT6

Only current measurement

- / •

60 kHz

10 / 12

6-96 (max. 16 modules)*1

1. – 63.

only THD-I

-: 0.5%

•

only via UMG 20CM

only via UMG 20CM

Current threshold values per channel

GridVis®-Basic

only via UMG 20CM

only via UMG 20CM



UMG 604-PRO (UL certified)

277 / 480 V AC

480 V AC

95 - 240 V AC; 135 - 340 V DC*1

20 kHz

10 / 12

4

1. – 40.

> 50 µs

0.2%: 0.25%

0.5S (.../5 A)

128 MB

Jasic® (7 Prg.)

GridVis®-Basic



UMG 605-PRO (UL certified)

277 / 480 V AC

480 V AC

95 - 240 V AC; 135 - 340V DC*

20 kHz

10 / 12

4

1. - 63.

> 50 µs

0.2%: 0.25%

0.5S (.../5 A)

•

128 MB

Jasic® (7 Prg.)

•/•

GridVis®-Basic

•

•



UMG 801 (UL certified)

347 / 600 V AC (acc. to UL)

480 / 830 V AC (acc. to IEC)

690 V AC

24 - 48 V DC, PELV

51.2 kHz (V) / 25.6 kHz (A)

10 / 12

1.-127. / 1.-63.

0.2%: 0.2%

0.2S (.../5 A)

4 GB

GridVis®-Basic

*10

Modbus TCP/IP



Module 800-CT8-A (UL certified)

Only current measurement

8.33 kHz

10 / 12

8-80 (max. 10 modules)

1., 3., 5. ... 15.

only THD-I

0.5%

0.5S (.../5 A)

GridVis®-Basic



UMG 806

230 / 400 V AC

400 V AC

80 - 270 V AC; 80 - 270 V DC

•/•

8 kHz

10 / 12

1. - 31.

0.2%: 0.2%

0.5S (.../5 A)

4 MB

GridVis®-Basic

-







i m	odı	ıles	•	

4*12

GridVis®-Basic

14.02.01	14.02.02

: not included

and outputs:

1 Other voltages are also available

b) 2 Digital outputs and 3 digital

optional analogue / temperature

residual current input

PROFINET communication

7 With module + 1 current

*10 For polling the slave device

optional operating current or

*13 230 / 400 V AC (acc. to UL) at

Comment: For detailed technical

respective operation manuals and

information please refer to the

the Modbus address lists.

MID/MID+ variants

*3 Combination options for inputs

a) 5 digital outputs

*4 Combined function:

*6 SNMP only for internal

*5 2 Pulse outputs

*8 MID certified

*9 On the basic device

*11 Combined function:

residual current

*12 These are 4...20 mA

signal inputs

Gain an overview of consumption data and costs. Uncover increasing residual currents and overloads. Generate key performance indicators from consumption and measured data according to the provisions of ISO 50006.

Network analysis & evaluation

Analyse and evaluate measured data. Functions: statistics, line charts, pie charts, heat maps, CBEMA curves, duration curves, tables, Sankey diagram, key performance indicators.

Security & alarm management

Monitor threshold values of measured variables, consumption data, residual currents and communication. Reliable altering via e-mail and web interface.

Visualisation & documentation

Create your own dashboards and overviews with a large selection of functions and graphics. Profit from the prepared reports and documentation for the topics of energy management, power quality and residual current monitoring.

THUILINTT Dashboard example

GridVis® SOFTWARE

Energy management, power quality, residual current monitoring:

Visualising, analysing, generating alerts, documenting

Energy management (EnMS)

Certified according to ISO 50001. You are on the safe side when it comes to topics, such as BAFA, reduction of EEG apportionments or even the peak balancing according to the German Energy-Saving Efficiency System Ordinance (SpaEfV).

Transparency



OVERVIEW OF GridVis® EDITIONS

51.00.116

51.00.180

51.00.190

GridVis®-Basic – free basic version

- Event browser (NEW*1)
- Maximum five measurement devices

- Commissioning report
 Energy and consumption reports
 PQ reports (EN 50160, EN 61000-2-4 etc.)

GridVis®-Professional

As GridVis®-Basic, but with the following

- Unlimited number of devices and data poin
- Database drivers (MSSQL, MySQL)
- Automation (reading, timing, etc.)
- Virtual measurement devices and logic
- User management

GridVis®-Service

As GridVis®-Professional, but with the

- following additional features: ■ Active directory (NEW*1)
- Expanded reports:
- Utilization report (NEW*1)
- UptimeLET (Limits, Event, Transients)
- Energy invoice
- COMTRADE data export ■ MSCONS data import (NEW*1) and export
- Service including REST API
- Online recorder
- Alarm management Measured and consumption data export (CSV)
- External devices (generic Modbus)
- Expanded automation (reports, database actions, E-mail/alerting, cost centers and tariffs)

GridVis®-Ultimate

As GridVis®-Service, but with the following additional features:

■ GridVis® Energy web interface

Expanded user management

Dashboard and template manager

■ Widgets Key performance indicator evaluation (KPI)

Sankey diagram (energy flow analysis)

Device overview with graph function

OPC UA client Image and symbol library

*1 NEW: from version 7.4

Smart Energy & Power Quality Solutions





3-IN-1 MONITORING

One System - three benefits

Benefit from our competence and our extensive services for the whole product life cycle. The hardware and software components are ideally geared to each other. Implement energy management, power quality monitoring and residual current monitoring in only one system environment.

Energy management DIN EN ISO 50001

- Reduces CO₂ emissions
- Reduces energy costs
- Improves energy efficiency

Power quality DIN EN 50160

- Ensures availability
- Reduces downtimes
- Optimises maintenance

Residual current monitoring (RCM)

- Effort reduction of the DGUV V3
- Improves supply reliability
- Rapidly identifies faults
- Improves fire protection

Improvement of the power quality

POWER QUALITY SOLUTIONS

Power quality and supply reliability are extremely important. High sensitivity devices and processes are heavily dependent on a clearly defined power quality. In order to ensure stable processes and adequate power supply despite the increasing number of devices which generate grid distortions, steps must be taken to improve the power quality.

Janitza electronics offers a comprehensive package to improve the power quality:

- Power factor correction in both inductive and capacitive ranges
- Dynamic power factor corrections
- Active and passive harmonics filter

Rapid amortisation through:

- Reduction of reactive power and savings in operational costs
- Reduction of harmonics
- Network symmetry between phases
- Reduction of transients and voltage dips
- Compensation with rapid switching actions
- Reduction of switching spikes





Smart Energy & Power Quality Solutions

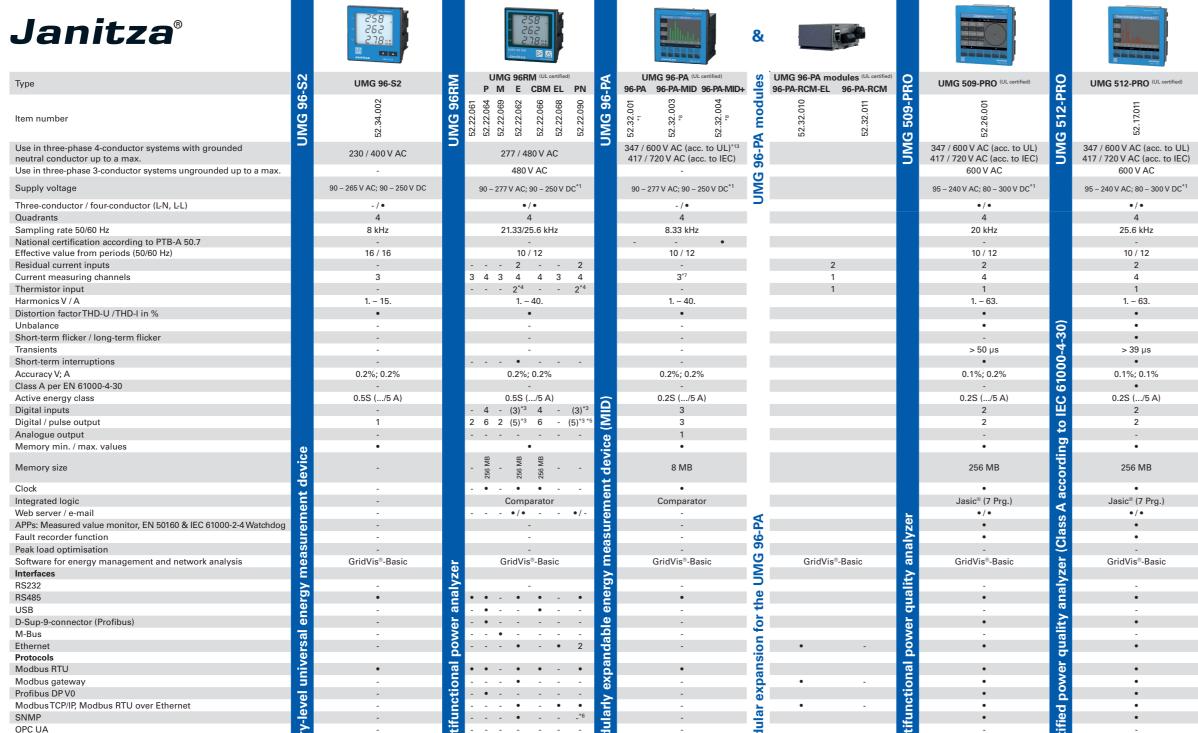
SHORT PRODUCT OVERVIEW

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Janitza[®]

BACnet IP



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