Smart Energy & Power Quality Solutions

Use in three-phase 4-conductor systems with grounded

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

Memory size / recording duration (according to factory setting)

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

Software for energy management and network analysis

Modbus TCP/IP, Modbus RTU over Ethernet



8 kHz

16 / 16

1st - 15th

0.2%; 0.2%

0.5S (.../5 A)

GridVis® Essentials



21.33/25.6 kHz

10 / 12

3 4 3 4 4 4

1st - 40th

- - 2 -

.

0.2%; 0.2%

0.5S (.../5 A)

2 6 2 (5)*3 6 (5)*

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Comparator

GridVis® Essentials

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4 - (3)*3 4 (3)*3







UMG 509-PRO (UL certified)









1st - 63th

> 39 µs

0.1%; 0.1%

Class A

0.2S (.../5 A)

Modern load management is becoming increasingly important in the context of the energy and mobility transition. Intelligent load management 347 / 600 V AC (UL) facilitates the avoidance of production downtimes, the development of energy strategies and the reduction of costs.

Load management engineering

Load management for the energy

and mobility transition

Janitza electronics supports you from the analysis of your system environment to the integration of a modern load management approach. Let us assist you in optimizing your systems to achieve your energy goals. With our cross-manufacturer networking, we can integrate your existing production environment and ensure transparency.

LOAD MANAGEMENT SOLUTIONS

Your advantages at a glance:

- Optimize your energy supply
- Detect and reduce peak loads
- One overarching system for all applications
- A uniform data basis for cost analysis
- Future-proof thanks to a wide range of expansion options

Your savings potential in figures:

- Reduction of expensive peak loads by up to 40%
- Reduction of charging costs for electric cars by up to 50%
- Increase the efficiency of your PV system by up to 100%



Janitza electronics GmbH



Only those who keep a close eye on their energy consumption can reduce costs and increase energy effi-

This is a particular focal point for Janitza electronics GmbH. The product range offered by Janitza provides complete system solutions for modern energy data management (e.g. ISO 50001), power quality, load management and residual current monitoring.

Alongside measurement devices and software, Janitza also offers the associated services – a complete solution that guarantees efficient energy management. This includes: Energy measurement technology, class A network quality analyzers compliant with standard EN 50160, energy management systems and many more. Alongside consultation and the development of technical solutions, Janitza also carries out commissioning, courses and training with customers and provides maintenance and support for our systems.

Janitza develops and manufactures the products (hardware and software) at their site in Lahnau, Germany just as they always have.



Smart Energy & Power Quality Solutions

SHORT PRODUCT OVERVIEW

Janitza

Phone +49 6441 9642-0 info@janitza.com www.janitza.com

Janitza[®]

Janitza[®]

Part number

Quadrants

neutral conductor up to max.

Sampling frequency 50/60 Hz

Current measuring channels

Residual current inputs

Harmonics current V / A

Short / long-term flicker

Short-term interruptions

Thermistor input

Unbalance

Transients

Accuracy V: A

IEC 61000-4-30

Digital inputs

Analog output

Integrated logic

Interfaces

RS-232

RS-485

M-Bus

Ethernet

Protocols Modbus RTU

OPC UA BACnet IP Profinet

Modbus gateway

Profibus DP V0

USB

Web server / Email

Fault recorder function

Peak load optimisation

D-Sub 9 plug (Profibus)

Active energy class

Digital / pulse output

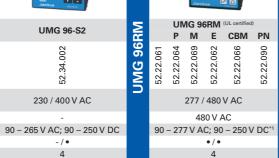
Memory for min. / max. values

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

Meter reading cycle as per PTB-A 50.7

Effective value from periods (50/60 Hz)

Distortion factor THD-U / THD-I in %



90 - 277 V AC; 90 - 250 V DC*1

8.13 kHz

10 / 12

3*7

1st - 40th

0.2%; 0.2%

0.2S (.../5 A)

8 MB / approx. 3

profile: approx.

24 months)

Comparator

UMG 96-PA (UL certified) 96-PA 96-PA-MID+ 347 / 600 V AC (UL)*13 347 / 600 V AC (UL) 417 / 720 V AC (IEC)*13 417 / 720 V AC (IEC) 600 V AC

13.67 kHz 13.97 kHz

10 / 12

3*7

1st - 65th

0.2%; 0.2%

Class S*14

0.2S (.../5 A)

64 MB / partition A:

approx. 45 months,

part. B: approx.

20 months

Comparator

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●*14

RCM-EL (UL certifie)

347 / 600 V AC (UL) 417 / 720 V AC (IEC) 600 V AC 95 - 240 V AC; 80 - 300 V DC*1

20 kHz

417 / 720 V AC (IEC) 600 V AC 95 - 240 V AC; 80 - 300 V DC*1 25.6 kHz 10 / 12

10 / 12 1st - 63th

1 > 50 µs 0.1%: 0.2%

0.2S (.../5 A)

•/•

GridVis® Essentials

256 MB / 256 MB / approx. 95.95 months approx. 3.11 months Jasic® (7 prg.)

Jasic® (7 prg.) •/•

GridVis® Essentials

in conjunction with an electric storage unit

Janitza

neutral conductor up to max.

Sampling frequency 50/60 Hz

Residual current inputs

Harmonics current V / A

Short / long-term flicker

Short-term interruptions

Thermistor input

Transients

Accuracy V; A

IEC 61000-4-30

Digital inputs

Analog output

Integrated logic

RS-232

RS-485

Ethernet

Protocols

OPC UA

BACnet IP

Profinet

Modbus RTU

Modbus gateway

Profibus DP V0

Web server / Email

Fault recorder function

Peak load optimisation

D-Sub 9 plug (Profibus)

Active energy class

Digital / pulse output

Memory for min. / max. values

Current measuring channels

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

Meter reading cycle as per PTB-A 50.7

Effective value from periods (50/60 Hz)

Distortion factor THD-U / THD-I in %

Use in three-phase 4-conductor systems with grounded

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

Memory size / recording duration (according to factory setting)

Software for energy management and network analysis

Modbus TCP/IP, Modbus RTU over Ethernet

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

Part number

UMG 103-CBM (UL certified)

277 V / 480 V AC

5.4 kHz

10 / 12

3

1st - 40th

0.2%; 0.2%

0.5S (.../5 A)

4 MB / approx. 3 months

Comparator

GridVis® Essentials



UMG 20CM

230 / 400 V AC

90 - 276 V AC; 90 - 276 V DC

20 kHz

10 / 12

20*11

20*11

1st - 63th

1%; 1%

768 KB / approx. 1 month

Current limit values per channel

GridVis® Essentials

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Module 20CM-CT6

Current measurement only

- / •

60 kHz

10 / 12

6-96 (max. 16 modules)*1

1st - 63th

THD-I only

-; 0.5%

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Only via UMG 20CM

Only via UMG 20CM

Current limit values per chann

GridVis® Essentials

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

1

1st - 40th

> 50 µs

0.2%; 0.25%

0.5S (.../5 A)

128 MB / approx. 47.97 mo

Jasic® (7 prg.)

GridVis® Essentials



UMG 605-PRO (UL certified)

277 / 480 V AC

480 V AC

20 kHz

10 / 12

4

1st - 63th

> 50 µs

0.2%; 0.25%

Class S

0.5S (.../5 A)

/ approx. 2.37 n

Jasic® (7 prg.)

•/•

GridVis® Essentials

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V AC; 135 - 340 V DO



UMG 801 (UL certified)

347 / 600 V AC (UL)

690 V AC

24 - 48 V DC, PELV

51.2 kHz (V) / 25.6 kHz (A)

10 / 12

1st-127th / 1st-63th

0.2%; 0.2%

0.2S (.../5 A)

4 GB / no factory setting

GridVis® Essentials

*10

ModbusTCP/IP

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480 / 830 V AC (IEC)



Module 800-CT8-A (UL certified)

Current measurement only

8.33 kHz

10 / 12

8-80 (max. 10 modules)

1st. 3rd. 5th ... 15th

THD-I only

0.5%

0.5S (.../5 A)

GridVis® Essentials



UMG 806

230 / 400 V AC

400 V AC

80 - 270 V AC; 80 - 270 V DC

8 kHz

10 / 12

4

1st - 31th

0.2%; 0.2%

0.5S (.../5 A)

•

4 MB

GridVis® Essentials

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806 Mod	
806-ED1	806-EI1
02.019	12.020

4*12

GridVis® Essentials

: Not included

*2 Option

*1 Other voltages are also available

3 Possible combinations of

inputs and outputs:

a) 5 digital outputs b) 2 digital outputs and

Combined function:

*5 2 pulse outputs

*8 MID certified

*9 On the basic device

*11 Combined function:

residual current

and 52.36.025

*16 approx. 2 months

*6 SNMP for internal

*7 With module + 1 current

*10 To query the slave devices

Optionally operating or

*12 These are 4...20 mA signal

*13 289 / 500 V AC for MID+ models

*15 Partition A: approx. 106 months,

Comment: For detailed technical

respective operating manuals and

information, please refer to the

the Modbus address lists.

partition B: approx. 26 months

*14 Applies to part no. 52.36.021

Optional analog / temperature /

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	APPROXIMATION IN				

GridVis® Cloud offers a web-based tool for quick and easy measurement data preparation. No matter whether verifications need to be provided, electricity savings are required or the CO₂ balance must be calculated, the GridVis® Cloud helps to master these tasks. As a software service, it offers an energy monitoring tool that can be integrated into the daily work routine with very little effort. Use the Cloud Connector to automatically upload measurement data to the cloud, and then access the data via the dashboard.



GridVis® Cloud -Preconfigured dashboards

SOFTWARE SOLUTIONS

GridVis® power grid monitoring software

In addition to the visualization of measurement data, the scalable GridVis® power grid monitoring software offers numerous functions for detailed analysis and configuration. Those functions include simple data exports, easy-to-create dashboards and standards-compliant reports. This makes GridVis® perfect for setting up standards-compliant monitoring systems in the application areas of energy management, power quality



GridVis® Cloud energy monitoring portal

OVERVIEW OF GridVis® EDITIONS

GridVis® Essentials free entry-level model

- Device configuration
- Graph function
- Device overview
- Event browser
- Basic data exports
- RCM data exports

GridVis® Standard - additional functions beyond GridVis® Essentials

- Service
- Logic
- Automation
- Database management
- Device monitoring
- User management
- Online recorder
- Widget basic package
- Dashboards & templates
- PQ data exports
- EnMS data exports
- CSV data import
- MSCONS data import
- REST API

GridVis® Expert - full functionality beyond GridVis® Standard:

- Active Directory
- Alarm management
- Widget enhancement
- Sankey diagram
- Key performance indicators (KPI)
- Report editor
- Modbus devices from third party suppliers
- OPC UA client
- Comtrade data exports
- MSCONS data export



GridVis®

Expert

GridVis®

Standard