

Power Grid Monitoring Software – GridVis®



EDITIONS
ESSENTIALS, STANDARD, EXPERT

Three applications – one software package

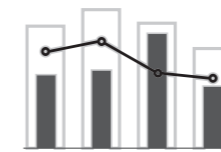
ENERGY MANAGEMENT – POWER QUALITY – RESIDUAL CURRENT MONITORING

The scalable GridVis® network analysis software enables realization of the three applications of energy management, power quality monitoring and residual current detection. GridVis® identifies energy saving potentials, analyzes parameters and helps to optimize the utilization of operating equipment as well as to detect production downtimes at an early stage. This makes the scalable, user-friendly software perfectly suited for developing standards-compliant energy, RCM and power quality monitoring systems, and it has been classified by the BAFA as energy management software that is eligible for funding. Depending on your requirements, three editions with different functionalities are available.



FUNCTIONS AT A GLANCE

ENERGY MANAGEMENT



Certified according to ISO 50001. With Janitza GridVis®, you are on the safe side when it comes to things like BAFA, reduction of the EEG levy or peak balancing according to SpaEfV.

SAFETY & ALARM MANAGEMENT



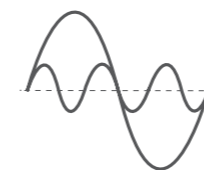
Monitor limit values of measured variables, consumption data, residual currents and device communication. Escalation levels for needs-based alerting via email and web interface.

VISUALIZATION & DOCUMENTATION



Web visualization according to your needs. Create your own dashboards and overviews with a wide range of graphics quickly and easily with no programming knowledge.

NETWORK ANALYSIS & EVALUATION



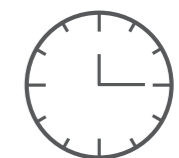
Analyze and evaluate measurement data. Use numerous tools such as statistics, charts, heat-maps, Sankey diagrams and key performance indicators.

CONNECTIVITY



Whether OPC UA, REST API or CSV. We offer many options for data import & export as well as data access. An open and future-proof system.

AUTOMATION



Automation functions for time-controlled task management. Plan data imports, report generation or device readouts and create shift schedules.

ESSENTIALS EDITION

FUNCTIONS OF THE ENTRY-LEVEL MODEL

GridVis® Essentials offers basic functions for the configuration of Janitza energy measurement devices as well as a graph function for the visualization of current and historical measured values. In addition, a tool for evaluating events and transients is included. Simple standard reports, such as the EN 50160 evaluation or CSV/XLS data exports as well as reports for residual current measurement (RCM) are provided.

SYSTEM FUNCTIONS

Device configuration

Configure your measurement devices using numerous setting and parametrization options.

VISUALIZATION

Event browser

Events and transients can be analyzed easily and in detail using graphs, the CBEMA curve and statistics.

Device overview

Overview of all meters as well as a search and filter function.

DOCUMENTATION

Basic data export

CSV exports and various reports (commissioning report, energy report and EN 50160 report)

RCM data exports

The RCM report allows clear and uncomplicated display of measurement data from residual current measurements.



Status of the overview 1.1.2021. Please refer to our website www.gridvis.de for the current status of the functions per edition.

STANDARD EDITION

ADDITIONAL FUNCTIONS AND VISUALIZATION OPTIONS

In addition to the basic functions of the Essentials edition, GridVis® Standard offers advanced data visualization options. Extensive system functions facilitate data management, create a quick overview and simplify processes. Data exports in the form of various reports facilitate evaluation. The data import function enables the import of external data such as financial statistics or key-performance & production data into GridVis®.

SYSTEM FUNCTIONS

Logic

Logical links with operations & functionality to create cost centers or virtual measurementpoints, for example.

Automation & monitoring

Readout and tariff management, notifications in case of faulty device communication. Online Recorder for recording.

Databases & users

Use database actions and MSSQL/MySQL drivers. The user management allows roles and permissions to be set up.

VISUALIZATION

Widget basic package

Create dashboards and add visual features such as charts and live values

CONNECTIVITY

Data import

Data imports from CSV or MSCONS files.

REST API

REST API interface for developers and application engineers.

DOCUMENTATION

Basic data export

CSV exports and various reports (commissioning report, energy report and EN 50160 report)

EnMS data exports

For energy management, the utilization report and the energy bill are available.

PQ data export

Data exports for assessing power quality, such as the high availability report, the LET report or the EN 50160 annual evaluation.

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EXPERT EDITION

ENHANCED RANGE OF FUNCTIONS BASED ON GridVis® STANDARD

GridVis® Expert provides the full range of GridVis® functions. This includes additional visualization options, system functions and optimal adaptation to your needs. You can create key performance indicators as well as quantity flow diagrams and combine them with clarity. Your data can be imported securely and easily with the OPC UA Client. In addition, third-party devices can be integrated via Modbus/TCP or Modbus/RTU. Various protocols and interfaces are supported by the software. This means GridVis® Expert enables optimal processing of your data.



Visualization of a quantity flow diagram (Sankey), a heatmap and a KPI evaluation

SYSTEM FUNCTIONS

Active Directory

Connection to a central Windows user management via LDAP protocol is possible.

Alarm management

Monitoring of data and communication as well as alerting via different channels; logbook and escalation levels included.

VISUALIZATION

Widget enhancement

Additional useful visual features that can be placed on dashboards, such as heatmaps and additional charts.

Sankey diagram

Creation of flow rate diagrams. Visual representation of energy consumption based on historical values and live values.

Key performance indicators (KPI)

Creation and evaluation of key performance indicators. Recognize changes and improvements in the energetic baseline (EnB).

DOCUMENTATION

Basic data export

CSV exports and various reports, such as the commissioning report or the energy report.

RCM & EnMS data export

RCM report for clear presentation of the measurement data. For energy management, the utilization report and the energy bill are available.

PQ data export

Various data exports can be used to assess the power quality, such as the high availability report, the LET report or the EN 50160 annual evaluation.

CONNECTIVITY

Modbus third-party devices

Integrate third-party devices via Modbus/TCP or Modbus/RTU (RS485).

OPC UA client

Integration of OPC UA servers to access additional data.

Comtrade & MSCONS data export

Events and transients can be stored in the Comtrade format, consumption data in the MSCONS format.

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ONLY TWO STEPS TO YOUR OWN GridVis®

1. SELECT THE GridVis® EDITION



In Essentials, the number of items is unlimited, so the following steps are not necessary.

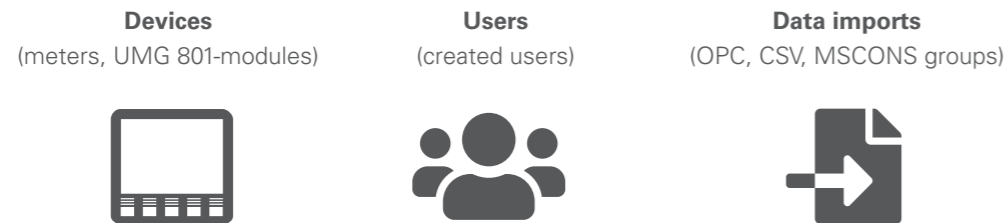
2. SELECT THE BASIC PACKAGE

Basic packages are available in different sizes, depending on the number of items required. Each basic package includes an update period of one year during which you can upgrade to higher release versions. GridVis® can continue to be used after the update period has expired; updates are then no longer possible.



What are items?

Items are devices, users and data imports created in GridVis®.



One meter corresponds to one item, no matter how many data points are collected by that meter. A module (UMG 801-module) also corresponds to one item. Exception: Plug-in modules of modular meters do not consume any items (e.g. UMG 96-PA module). The quantity of your items can be increased at any time. With the enhancement, you can cost-effectively scale your project size further upwards.

OPTIONS, UPGRADES AND EXPANSIONS

Extend update period (available for Standard and Expert):

If you wish to continue to receive updates after your update period has expired, you can purchase a 1 or 3 year extension of the update period at any time. You can also choose between different package sizes (see basic packages). The purchased packages are then charged and credited based on your existing items and the previous expiry date. Not a day goes missing!



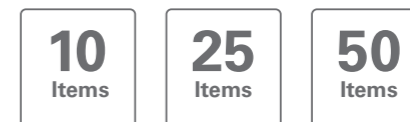
Upgrade to GridVis® Expert (available for Standard):

With the upgrade, GridVis® Standard can be enhanced to become GridVis® Expert. You can upgrade at any time, and the upgrade period is automatically extended by 12 months.

Please note that the upgrade also depends on the number of items. This must be greater than or equal to the currently used number of items.

Item enhancement (available for Standard and Expert):

The basic packages can be enhanced with item packages. These enhancements can be ordered more than once and combined with each other.



Calculation example – this is how the required items are calculated

Meters	50
Modules	10
GridVis® users	2
Data import	1
<small>One data import can contain up to 50 variables or measured values per group</small>	
Total items	63
Item packages required	50 + 25 = 75
Items still available	12



EDITIONS OVERVIEW

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	GridVis® Essentials	GridVis® Standard	GridVis® Expert
SYSTEM FUNCTIONS			
Device configuration	•	•	•
Service	–	•	•
Logic	–	•	•
Automation	–	•	•
Database management	–	•	•
Device monitoring	–	•	•
Online recorder	–	•	•
User management	–	•	•
Active directory	–	–	•
Alarm management	–	–	•
VISUALIZATION			
Graph function	•	•	•
Device overview	•	•	•
Event browser	•	•	•
Dashboards & templates	–	•	•
Widget basic package	–	•	•
Widget enhancement	–	–	•
Sankey diagram	–	–	•
Key performance indicators (KPI)	–	–	•
DOCUMENTATION			
Basic data exports	•	•	•
RCM data exports	•	•	•
PQ data exports	–	•	•
EnMS data exports	–	•	•
CONNECTIVITY			
CSV data import	–	•	•
MSCONS data import	–	•	•
REST API	–	•	•
Modbus devices from third party suppliers	–	–	•
OPC UA Client	–	–	•
Comtrade data exports	–	–	•
MSCONS data export	–	–	•



GridVis® LICENSE MANAGEMENT

You can register your GridVis® power grid monitoring software conveniently online. The online registration is carried out using the new Janitza license management feature (Janitza ID). You can register free of charge at <https://id.janitza.de>. Licenses and extensions can be added via license key using the Janitza ID server. In the license overview you will find a view containing your licenses – those still available as well as already used

items. Licenses can be used on a project-specific basis so that a project can be used on both the GridVis® desktop and the GridVis® web with no need for re-activation. Several projects can be managed and licensed within one company with only one ID. The security of your data is ensured using SSL encryption and a signature between GridVis® and the ID server.



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Item no.: 33.03.816 • Doc. no.: 2.500.221.0 • 12/2020 • Subject to technical alterations.
The latest version of the brochure is available at www.janitza.com