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"GridVis software®" quick start
UMG 96-PA

Supplement to the user manual and installation instructions

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Janitza®

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1 ## General information

This quick start into our GridVis® software is a supplement to the user manual and installation instructions of the UMG 96-PA. The following steps describe the most common connections for the communication between the PC and device.

Please first read and understand the information products accompanying the product and in particular the safety-relevant information contained therein.

Disclaimer
It is essential that the information products for the devices are observed to ensure safe operation and achieve the specified performance characteristics and product features. Janitza electronics GmbH assumes no liability for personal injuries, property damage and financial losses resulting from the failure to observe the information products.
Make sure that your information products are legible and accessible.

You can find more documentation on our web site www.janitza.de under
Support > Downloads.

Copyright notice

Subject to technical changes.
Information and specifications can change. Please consult www.janitza.de for information on the current version of our software.

SAFETY
Please observe the safety information in this document, which is presented as follows and contains the following degree of risk for our software:

⚠️ CAUTION!	Points out dangerous situations, which e.g could lead to property damage due to data loss or faults in the IT network.
☞	This symbol with the word **NOTE!** describes important information, procedures or operations.

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2 ## Establishing the connection to the PC

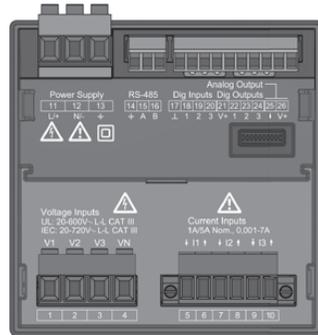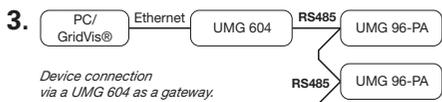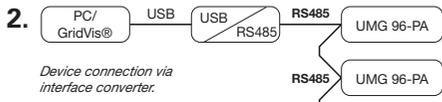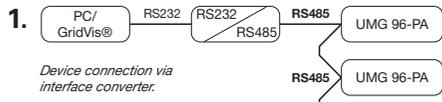The most common connections for the communication between the PC and device:

1.
PC/GridVis® — RS232 — RS232/RS485 — RS485 — UMG 96-PA
RS485 — UMG 96-PA

Device connection via interface converter.

2.
PC/GridVis® — USB — USB/RS485 — RS485 — UMG 96-PA
RS485 — UMG 96-PA

Device connection via interface converter.

3.
PC/GridVis® — Ethernet — UMG 604 — RS485 — UMG 96-PA
RS485 — UMG 96-PA

Device connection via a UMG 604 as a gateway.

Fig. rear of UMG 96-PA

⚠️ CAUTION!	**Property damage due to incorrect network settings**

Incorrect network settings can cause faults in the IT network!
Consult your network administrator for the correct Ethernet network settings for your device.

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3 ## UMG 96-PA - PC connection via a UMG 604 as a gateway

The PC connection of the UMG 96-PA via the UMG 604 as a gateway is the most common connection for the communication between the PC and device:
1. Configure your UMG 604 via an Ethernet cable to your PC in the network with the DHCP server as "DHCP client" (automatically assigned IP address), without DHCP server as "Fixed IP address" (see user manual and installation instructions for the UMG 604).
2. Connect your UMG 96-PA to the UMG 604 via the RS485 interface (see installation instructions).
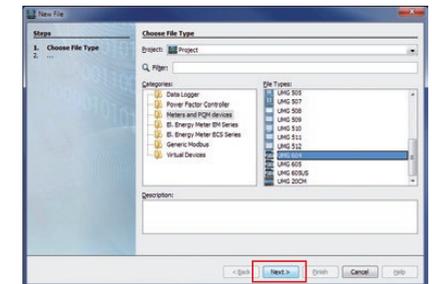
GridVis® software
Install the GridVis® software on your computer and proceed as follows:
1. Open the GridVis® software on your PC.
2. Select "*File*" > "*New project*" in the menu bar. For existing projects, select your project under "*File*" > "*Open project*".
3. The "*New project*" window appears.
4. Under step 1 "*Select project*", click the "*Next*" button.
5. Under step 2 "*Project path*", select the:
   - "*Project name*".
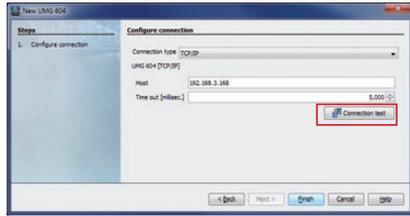   - "*Project path*".

6. Click on the "*Finish*" button.
7. Your project will appear on the left in the "*Projects*" window in the work area.

Insert UMG 604 in the project:
1. Select "*File*" > "*New file*" in the menu bar.
2. The "*New file*" window appears.
3. Under step 1 "*Select file type*", select the "*File types*" (UMG 604) in the category "*DIN Rail*".
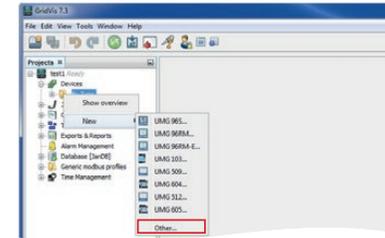

4. Click on the "*Next*" button.
5. The step "*Configure connection*" appears in the window.
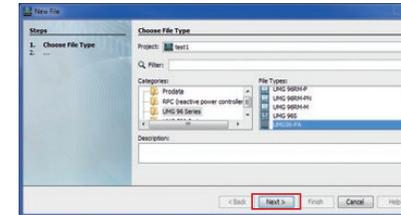
6. Select "*Connection type*" > "*TCP/IP*" in the drop-down list and enter the IP address of your device in the "*Host*" field.
   The IP address of your UMG 604 can be determined via the parameter addresses 300 to 303 in the programming mode (see user manual and installation instructions for the UMG 604).
7. Click on the "*Connection test*" button.
8. In the event of a positive connection test, the "*Show device info*" window appears with the serial number, hardware revision and firmware version.
9. Click on the "*OK*" button.
10. End the step "*Insert new device in the project*" by clicking on the "*Finish*" button.

Integrate UMG 96-PA in the project:
1. Click on the plus symbol in front of the "*Devices*" directory in the project window.
2. Click on the plus symbol in front of the "*According to device type*" subdirectory in the "*Devices*" directory.
3. The previously installed UMG 604 appears.
4. Using the right mouse button, click on the "*According to device type*" subdirectory.
5. Select the "*New*" menu item in the context menu.
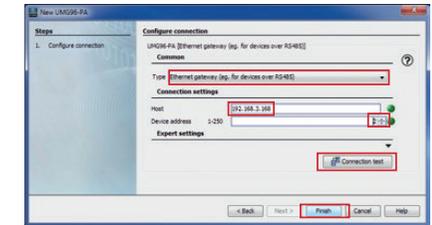6. Click on the "*Other*" menu item in the submenu.
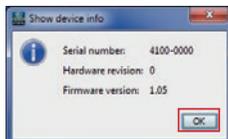

7. The "*New file*" window appears.

8. Select the "*File types*" UMG 96-PA in the category "*UMG 96 series*"

9. Click on the "*Next*" button.
10. The step "*Configure connection*" appears in the window.

11. Important settings under "*Configure connection*":
    - Select the "*Ethernet gateway (e.g. for devices on the RS485)*" connection type in the drop-down list.
    - Enter the IP address of your **UMG 604** in the "*Address*" input field (read **parameter address 300 to 303** on the device).
    - Select the device address of your **UMG 96-PA** in the "*Device address*" selection field (see user manual and installation instructions for the UMB 96-PA).
12. Click on the "*Connection test*" button.

13. In the event of a positive connection test, the "*Show device info*" window appears with the serial number, hardware revision and firmware version.
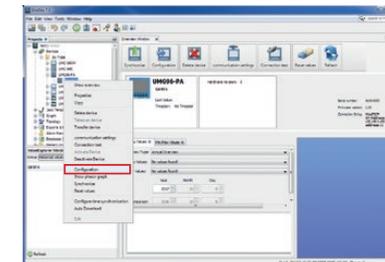

14. Click on the "*OK*" button.
15. End the step "*Insert new device in the project*" by clicking on the "*Finish*" button.

4 **GridVis® software device configuration**
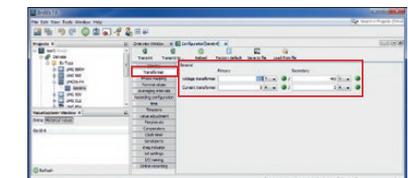
Basic settings
1. Open the context menu of your device with a right mouse click.
   - In the window "*Projects*" > "*Your project*" > "*Devices*" > "*According to device type*" > "*UMG 96-PA*" > "*Device x*".
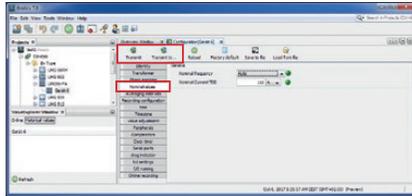

2. Click on the "*Configuration*" menu item in the context menu.
3. The "*Configuration [device x]*" window appears in the right half of the work area.
4. Assign your individual device name in the "*Name*" input field in the "*Configuration*" window under the "*Identity*" menu.

5. Enter the voltage and current ratios in the input fields in the "*Configuration*" window under the "*Converter*" menu.

6. Select the nominal frequency according to the existing network conditions in the *"Configuration"* window under the *"Nominal values"* menu.
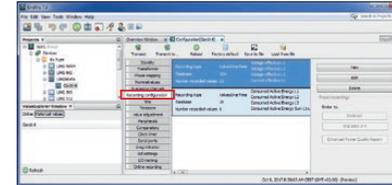

👉 **NOTE!**
In order to prevent data loss, save your changes to the device configuration via the *"Transmit"* or *"Transmit to"* buttons!

GridVis® software - recording settings

Check and, if necessary, configure the values which the measurement device is to save that are recorded in the *"Recording configuration"* menu. A recording contains one measured value or the mean value of the measured values.

👉 **NOTE!**
The GridVis® device configuration and recording settings describe basic settings.
The program windows shown can differ from the actual display depending on the device.
Additional functions, information and device settings, specific to your device, can be found in the online help for the GridVis® software.

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