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GridVis® software quick guide UMG 103-CBM

Supplement to the user manual and installation manual

Deutsche Version: siehe Vorderseite



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1 General

This quick guide to our GridVis® software is a supplement to the user manual and installation manual of the UMG 103-CBM.
The following steps outline the most common connections for communication between PC and device.

First, please read and ensure that you understand the information products that accompanies the product and in particular the safety related information contained therein.

Disclaimer
The observance of the information products for the devices is a prerequisite for safe operation and to achieve the stipulated performance characteristics and product characteristics. Janitza electronics GmbH accepts no liability for injuries to personnel, property damage or financial losses arising due to a failure to comply with the information products. Ensure that your information products are accessible and legible.

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Subject to technical amendments
Information and specifications subject to change. Please inform yourself under www.janitza.com on the latest version of our software.

SAFETY
Please note safety instructions in this document, which are shown as follows and include the following level of danger for our software:

VORSICHT! Refers to dangerous situations which, for example, can lead to property damage from data loss or failures in IT network.

NOTE! This symbol with the word describes important information, procedures or handling steps.

2 UMG 103-CBM - PC connections

Connections for communication between PC and device:

1. PC/ GridVis® — RS232 / RS232–RS485 — RS485 → UMG 103-CBM, UMG 103-CBM
   Connection of the device via interface converter.
2. PC/ GridVis® — USB / USB–RS485 — RS485 → UMG 103-CBM, UMG 103-CBM
   Connection of the device via interface converter.
3. PC/ GridVis® — Ethernet — UMG 604 — RS485 → UMG 103-CBM, UMG 103-CBM
   Connection of the device via a UMG 604 as a gateway.



Fig. UMG 103-CBM

CAUTION! Property damage due to incorrect network settings
Incorrect network settings can cause faults in the IT network!
Find out the correct network settings for your device from your network administrator.

3 UMG 103-CBM - PC connection via UMG 604 as gateway

The PC connection of the UMG 103-CBM via UMG 604 as a gateway is the most common connection for communication between PC and device:

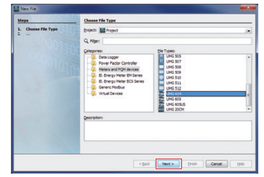
1. Configure your UMG 604 to your PC via an Ethernet cable on the network with a DHCP server as a "DHCP Client" (automatically assigned IP address), without a DHCP server as a "fixed IP address"(see user manual and installation manual for UMG 604).
2. Connect your UMG 96RM with the UMG 604 via the RS485 interface (see Installation manual)

GridVis® software
Install the GridVis® software on your computer and proceed as follows:

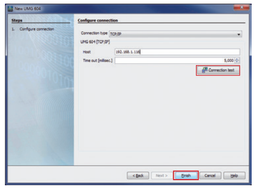
1. Open the GridVis® software on your PC.
2. In the menu bar, select *"File"* > *"New project"*. If the project already exists, open it by selecting *"File"* > *"Open project"*.
3. The *"New project"* window is displayed.
4. In step 1, *"Select project"*, click *"Continue"*.
5. In step 2, *"Project path", select the:*
   - *"Project name"*.
   - *"Project path"*.
6. Click *"Finish"*.
7. Your project is displayed on the left in the *"Projects"* window in the work area.

Insert UMG 604 in the project:

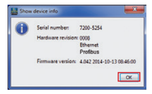
1. In the menu bar, select *"File"* > *"New file"*.
2. The *"New file"* window appears.
3. In step 1, *"Select file type"*, select the *"File type"* (UMG 604) in the *"Measurement devices"* category.



4. Click *"Next"*.
5. The *"Configure connection"* step is displayed in the window.



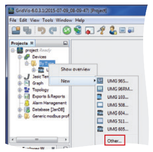
6. In the *"Connection type"* selection list, select *"TCP/IP"* and enter the IP address for your device in the *"Host"* field.
   The IP address of your UMG 604 is determined via the parameter addresses 300 to 303 in programming mode (see user manual and installation manual to the UMG 604).
7. Click *"Connection test"*.
8. If the connection test is successful, the *"Display device information"* window appears with the serial number, hardware version and firmware version.



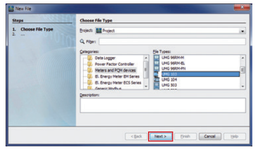
9. Click *"OK"*.
10. Complete the *"Insert new device into the project"* step by clicking *"Finish"*.

Integrate the UMG 103-CBM in the project:

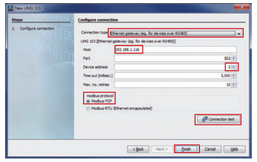
1. Click in the project window on the plus symbol in front of the *"Devices"* directory.
2. Click on the plus symbol in front of the *"By device type"* subdirectory in the *"Devices"* directory.
3. The previously installed UMG 604 appears.
4. Right-click with the mouse on the subdirectory *"By device type"*.
5. Click on the *"New"* menu item in the context menu.
6. Click on the menu item for your device in the submenu.



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



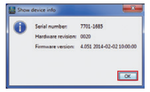
8. In the category *"Measurement devices"* select the *"File type"* UMG 103-CBM.
9. Click on the *"Next"* button.



10. The *"Configure connection"* step appears in the window.

11. Important settings under *"Configure connection"*:
    - Select *"Ethernet gateway (e.g. for devices connected to the RS485)"* connection type in the selection list.
    - Enter the IP address of your **UMG 604** in the *"Address"* input field (read out **parameter address 300 to 303** on the device).
    - Select the device address of your **UMG 103-CBM** in the *"Device address"* selection field. Note that the "Modbus-TCP" (Port 502) option is selected.
12. Click on the *"Connection test"* button.

13. If the connection test is successful, the *"Display device information"* window appears with the serial number, hardware version and firmware version.

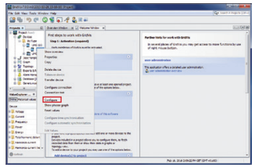


14. Click on the *"OK"* button.
15. Exit the *"Add new device to the project"* step by clicking on the *"Finish"* button.

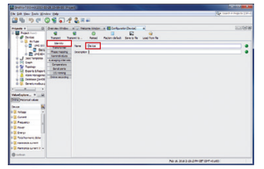
4 GridVis® software device configuration

Basic settings

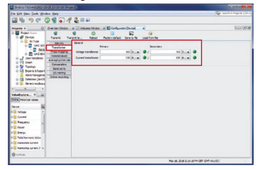
1. Open the context menu for your device with the right mouse button:
   - In the window *"Projects"* > *"Your project"* > *"Devices"* > *"By device type"* > *„UMG 103-CBM"* > *"Device x"*.



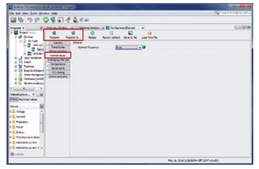
2. Click on the *"Configuration"* menu item in the context menu.
3. The *"Configuration [device x]"* window appears in the right half of the working area.
4. Enter your individual device name in the *"Name"* field under the *"Identity"* menu of the *"Configuration"* window.



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



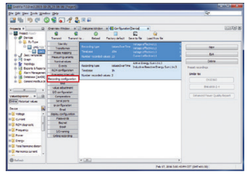
6. Select the nominal frequency under the *"Nominal values"* menu in the *"Configuration"* window, in accordance with the existing grid conditions.



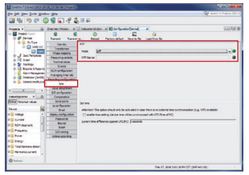
NOTE!
In order to avoid data loss, save your device configuration changes with the "*Transfer*" or "*Transfer to*" buttons!

5 GridVis® software - recording settings

Under "*Recording configuration*" you can check and configure which recordings the measurement device should save if required. A record holds a measured value or the mean value of the measured value.
Recommendation:



In order to be able to compare recordings of transients and events with those from other measurement points, activate the NTP mode under the "*Time*" menu and enter an NTP time server.



NOTE!
The GridVis® device configurations and recording settings represents the basic settings.
The program window shown may, depending on the device, different from the actual display.
Other functions, information and device settings, especially for your device, see the online help of the GridVis® software.

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