Commissioning

Mounting

Mount the main controller MC-230, PM1-E-D, PM3-E-D and PM3-I-D electricity sensors, fuses, power relays and push-buttons to a suitable location.

Wiring

Wire all elements **except** communication with single-phase **PM1-E-D sensors**.

Connect the MC-230 to the home LAN.

Configuration

Install and run HEMS Configurator on your PC.

Go to the “**settings**” page.

With the “**autodetect**” button, the application will locate the controller in the local network.

Enter **names**, select **icons** for all sources and consumers.

Power-sensor adding

One-phase sensor PM1-E-D

- **Connect** communication bus (to only one power-sensor)
- In HEMS Configurator counter should appear as “new device”
- Press and hold the push-button on the power-sensor until it appears **-SEt-** on display
- In HEMS Configurator click on the **“ add”** button next to the source or consumer that the sensor is measuring

Three-phase sensor PM3-E-D

- **Connect** communication bus (to only one power-sensor)
- In HEMS Configurator counter should appear as “new device”
- Click on the **“ add”** button next to the source or consumer that the sensor is measuring

Three-phase sensor PM3-I-D

- Communication bus with the power-sensor should already be connected
- Press and hold the push-button on the sensor until it appears **“COnF Add”** on display
- In HEMS Configurator counter should appear as “new device”
- Click on the **“add”** button next to the device that the sensor is measuring

Power-sensor removing

One-phase sensors PM1-E-D

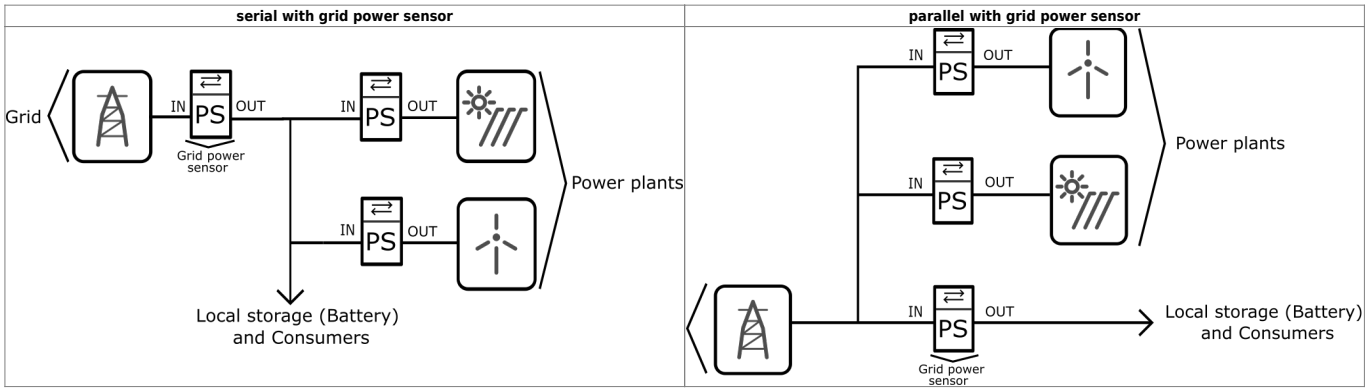
- Make sure the “new device” is empty
- Press the button on power-sensor until **-Set-** appears on display
- In HEMS Configurator press **“del”** button next to the sensor
- After a few seconds, the sensor should appear as the “new device”
- If desired, the sensor can be removed or it can be assigned to another device

Three-phase power-sensor

- Make sure the “new device” is empty
- In HEMS Configurator press **“del”** button next to the sensor
- After a few seconds, the sensor should appear as the “new device”
- If desired, the sensor can be removed or it can be assigned to another device

Power plant connection[1]

The power plant can be connected to the grid in two ways:



When configuring the power plant, select

- **in**: serial with grid power sensor
- **ex**: parallel with grid power sensor

In HEMS Configuration by default, the power plant is connected in series.

Wireless setting

Enable the wireless setting to add, delete, or set repeater level wireless modules.

Wireless module adding

Micro smart plug and Smart plug

- Launch the pairing by the press on the button for 2 seconds until the LED becomes red. Release the button, the LED will then glow in red
- To confirm that the pairing is OK, the LED will blink in green
- In the HEMS Configurator module should appear as “new device”
- Click on the **“ add”** button next to the consumer that connected to the module

Relay switch-1 channel

- Launch the pairing by doing 3 consecutive presses on the relay switch button. The LED blinks red
- To confirm that the pairing is OK, the LED will blink green twice
- The HEMS Configurator module should appear as a “new device”
- Click on the **“ add”** button next to the consumer that connected to the module

Relay switch-2 channel

- Launch the pairing by doing 3 consecutive presses on the relay switch button. The LED blinks red
- To confirm that the pairing is OK, the LED will blink green twice
- In the HEMS Configurator the module first channel should appear as a “new device”
- Click on the **“ add”** button next to the consumer that connected to the module first channel
- In the HEMS Configurator the module second channel should appear as a “new device”
- Click on the **“ add”** button next to the consumer that connected to the module second channel
- Before you pair a new device both channels must be added to the consumers

Wireless module removing

Micro smart plug, smart plug and relay switch-1 channel

- In HEMS Configurator press **“del”** button next to the consumer connected to the module you want to remove
- After a few seconds, the module is removing

Relay switch-2 channel

- In HEMS Configurator press **“del”** button next to the consumer connected to the channel

module you want to remove
- After a few seconds, delete the channel of a module should appear as the “new device”
- If desired, the module can be removing if delete another channel or the deleted channel can be assigned to another consumer

Setting repeater level

When enabling repeater mode, the wireless module can repeater a message not addressed to him, and increase range by creating network gride between all wireless devices.

The repeater can be configured to level 0 (off), level 1 (one hop), or level 2 (two hops):

- **Level 0**: gateway — module.
- **Level 1**: gateway — repeater — module.
- **Level 2**: gateway — repeater — repeater — module².

By default, the repeater mode is disabled (level 0). If you want to change the repeater mode press icon «» in the **output** in **Consumers settings table**.

Setting device management features

For each managed consumer we can set:

- **man. time**: the time is in minutes for the manual override. It serves to ensure that the user can ensure a minimum validity of the manual switchover.
- **out mode**: it can be normal (the output is turned on means the device is working) or inverted (the device is working when the output is off).
- **timetable checkbox**: allows to enable or disable the timetable for each device.

Enable power-sensor from compatible systems

HEMS will automatically detect compatible

- battery systems eStore and
- home automation systems HIQ Home

which are in the same local network.

Only the first system is detected, if there are more than one it is necessary to enter the serial number of the desired system manually.

if **eStore** is **enabled**, HEMS will read:

- **grid** power-sensor
- power-sensor for the **first PV Plant** and
- power-sensor of the **first storage** system

From the **enabled HIQ Home** system, HEMS will automatically read the **grid** power-sensor.

Internet access

If enabled, the system will automatically establish access to the HIQ Universe web service. Communication with the server is automatically established so that the controller sends the push message to the server, and the server can then access the controller on the given path. The UDP type of internet packets on the output port 8442 is used. If communication is not established automatically, check the access from the local network to the Internet and the router settings.

Permanent memory

Saving parameters to the permanent memory, after changing the settings, it is necessary since at startup HEMS always reads parameters from the permanent memory.

Backup / restore to PC

HEMS Configurator allows you to backup and restores all parameters to pc.

[1] Only for the first power plant

[2] Both repeaters must be set to level 2

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