

# HEMS G2 Configurator


HEMS Configurator

## home

Basic system overview.



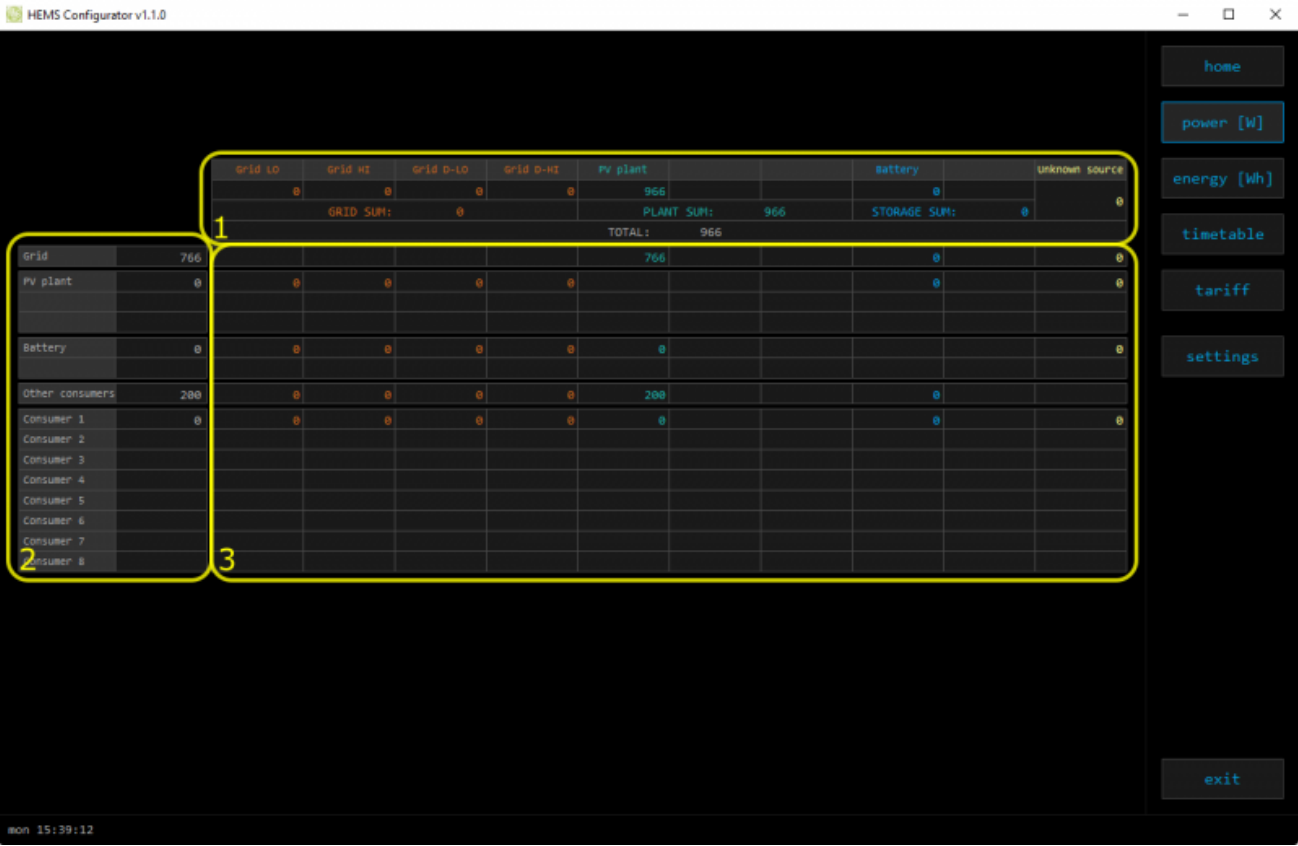
| 1. Grid |  |  |
|---------|--|--|
|         |  |  |

|   |             |  |
|---|-------------|--|
| <b>[]</b>   | Status      | Output status for managed consumers                                    |
| <b>bargraph</b> <sup>2</sup>  | Analog out  | Analog output value  |
| <b>click</b>  | Toggle      | Click in frame toggles managed consumers output                        |
| <b>long-press</b> <sup>2</sup>  | Set analog  | Long press on first consumer pops-up dialog for analog value set       |
| <b>5. Unknown source</b>  |             |  |
| >   | Sourced     | Power in W and energy in Wh from unknown source                        |
|  Accumulate also all differences caused by power-sensor inaccuracy |             |  |
| <b>6. Other consumers</b>   |             |  |
| >   | Consumed    | Consumed power in W and energy in Wh by other (not measured) consumers |
| <b>7. Temperature and humidity</b>  |             |  |
|   | Temperature | Temperature in °C  |
|   | Humidity    | Humidity in % RH   |

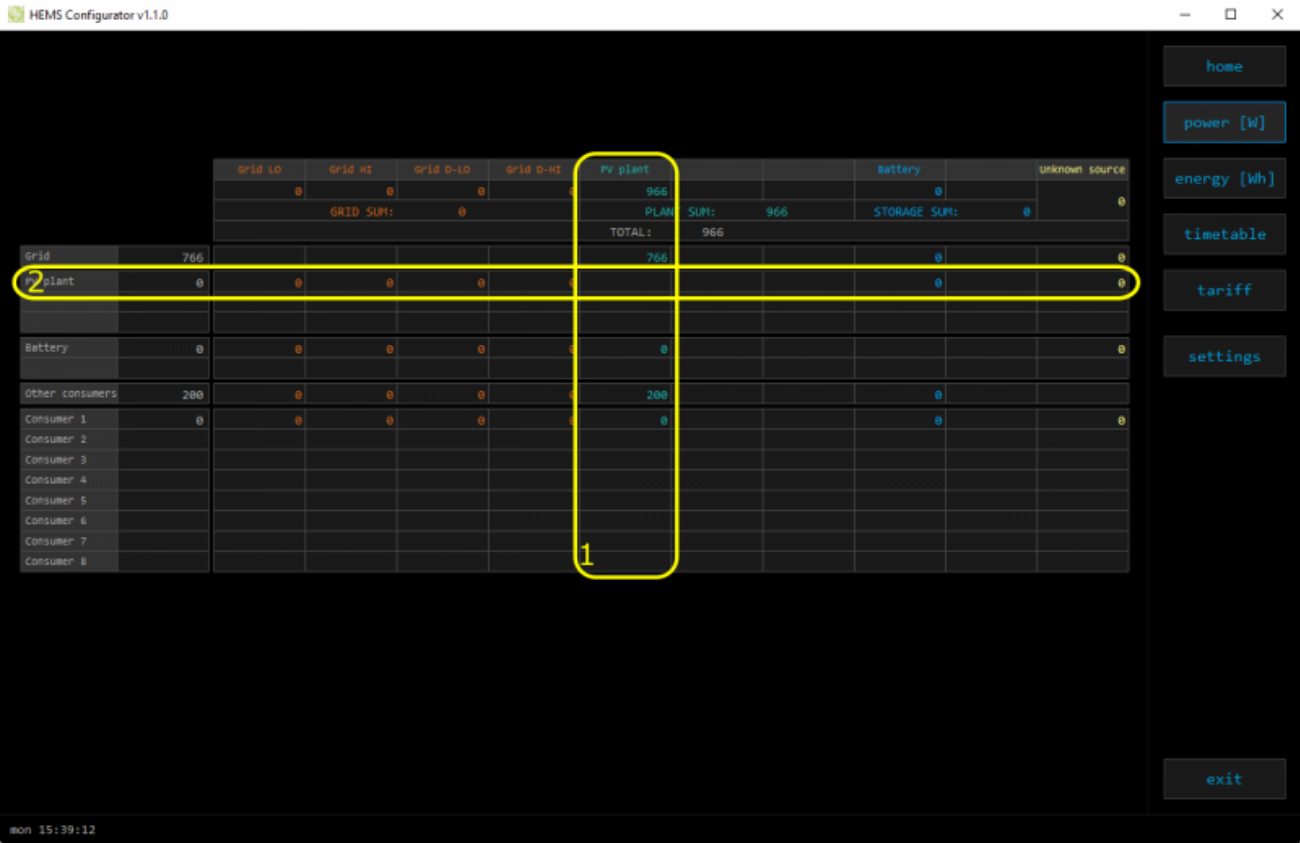
<sup>1</sup> only for eStore<sup>2</sup> only for first managed consumer

power

Overview of current power distribution by source / consumer.



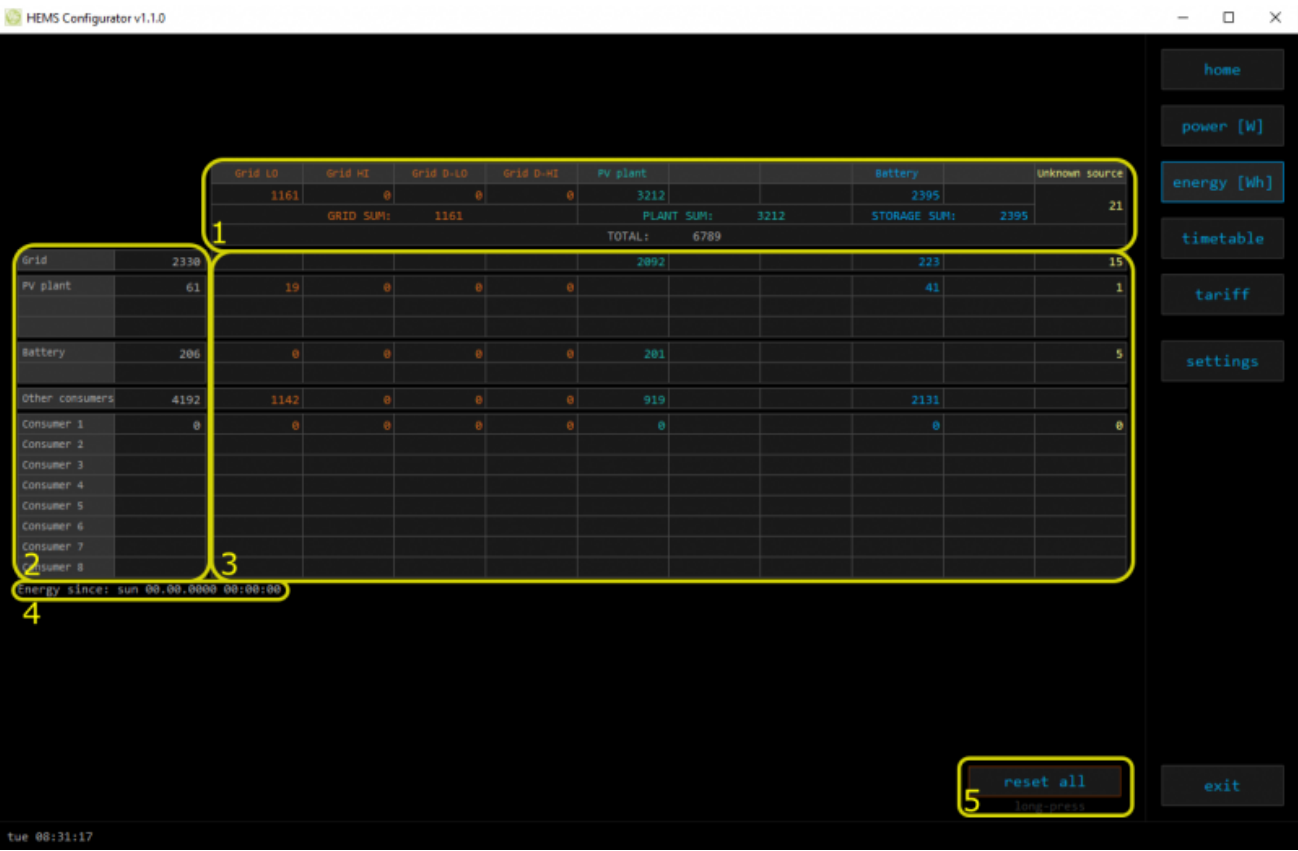
|                               |
|-------------------------------|
| 1. Sourced power              |
| Sourced power for each source |
| Sums per source type          |
| Total of all sourced power    |
| 2. Consumed power             |
| Power for each consumer       |
| 3. Power distribution         |
| Partial distributed power     |



- |  |
|--|
| <b>1. Sourced power distribution</b>           |
| How sourced power is consumed by each consumer |
| <b>2. Consumed power distribution</b>          |
| Who sources consumed power                     |

# energy

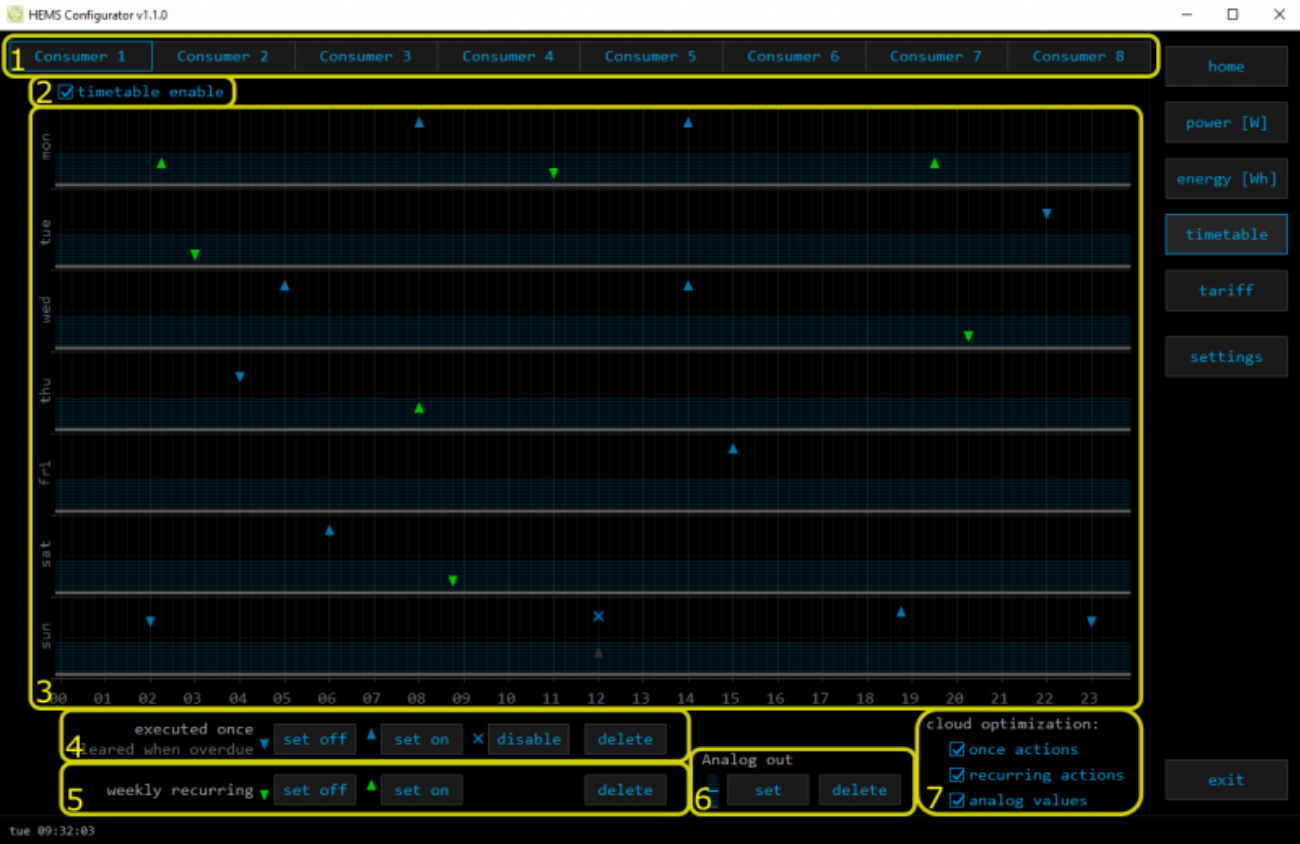
Energy overview of a given time distributed by sources / consumers.



|   |
|---|
| 1. Sourced energy                       |
| Sourced energy for each source          |
| Sums per source type                    |
| Total of all sourced energy             |
| 2. Consumed energy                      |
| Energy for each consumer                |
| 3. Energy distribution                  |
| Partial distributed energy              |
| 4. Energy since                         |
| Date and time since energy is recorded  |
| 5. Reset all                            |
| Long-press to reset all energy counters |

# timetable

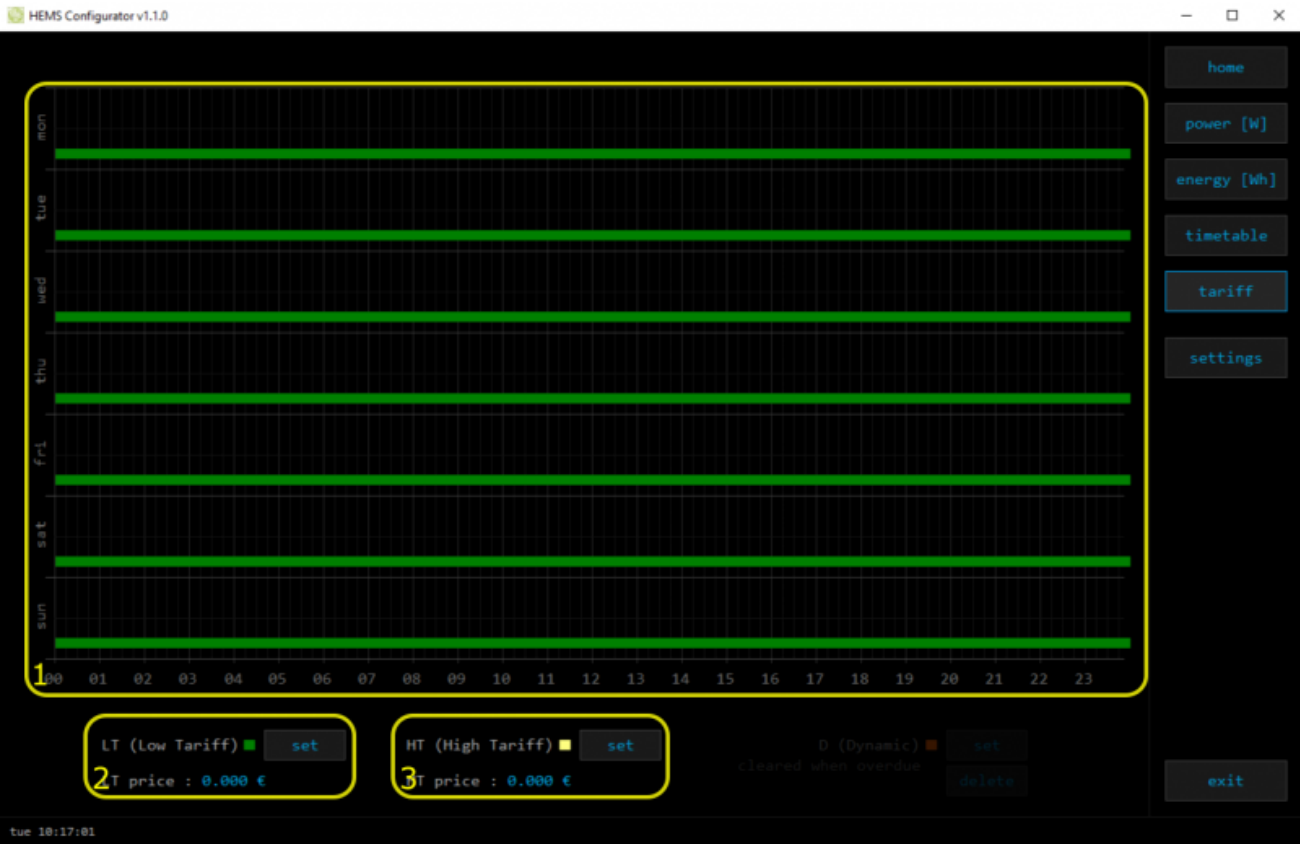
Weekly timetable for managed consumers.



|  |
|--|
| <b>1. Managed load menu</b>                                  |
| Switch between managed loads                                 |
| <b>2. Enable checkbox</b>                                    |
| When un-checked timetable is not executed                    |
| <b>3. Events grid</b>  |
| Events displayed in weekly grid (15 min resolution)          |
| Click to select time and set event by clicking buttons below |
| <b>4. Once actions (top priority timetable actions)</b>      |
| Actions are executed and then automatically cleared.         |
| “Disable” action will just disable recurring action.         |
| <b>5. Recurring actions (low priority actions)</b>           |
| Actions are executed each week.                              |
| <b>6. Analog out</b>   |
| Action to set analog output. Analog actions are recurring.   |
| <b>7. Cloud optimization</b>                                 |
| When enabled (checked) cloud optimization is enabled.        |

# tariff

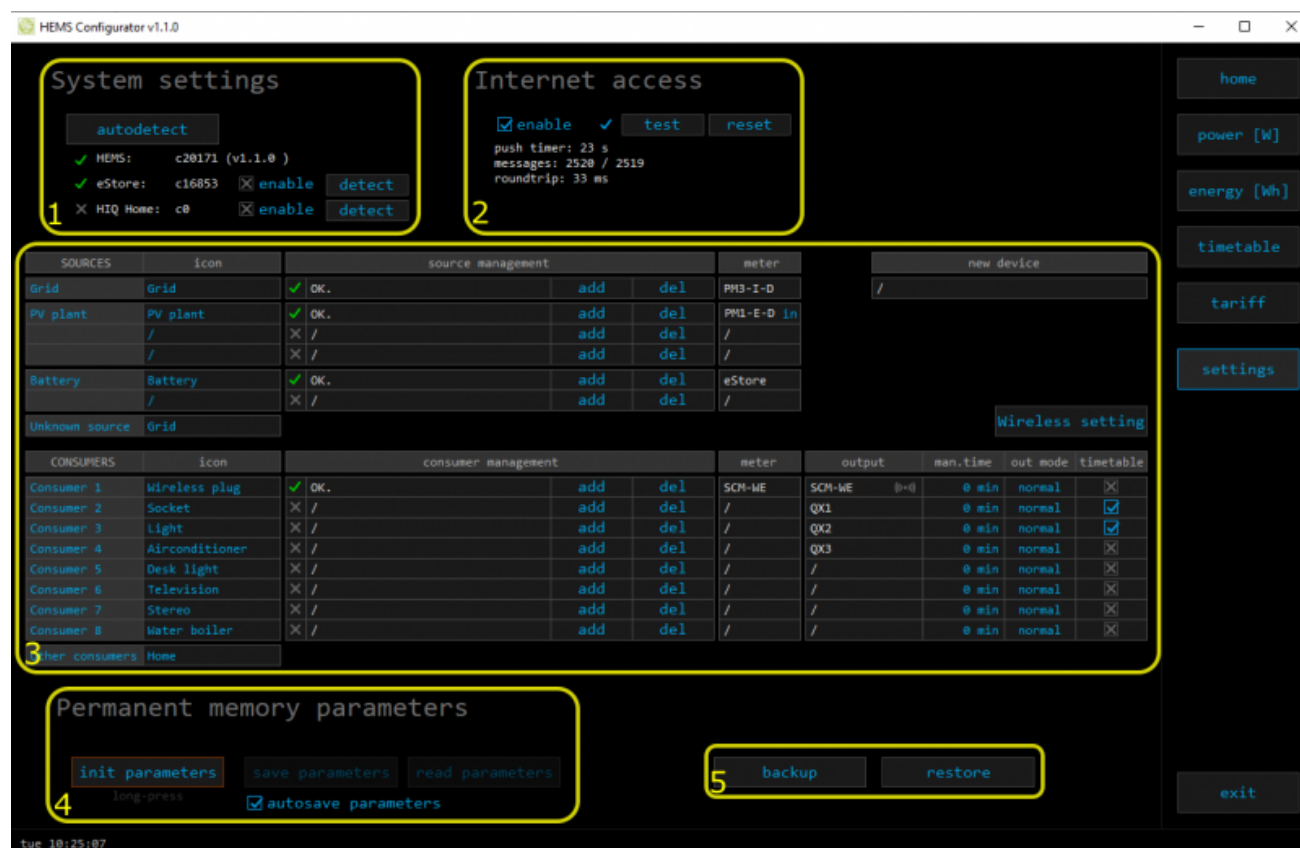
Weekly tariff timetable for grid energy per tariff distribution.



|  |
|--|
| <b>1. Tariff grid</b>  |
| Graphical weekly timetable with tariffs.                       |
| Click to select term, click-and-drag to select multiple terms. |
| <b>2. Low tariff</b>   |
| Set low tariff for selected terms.                             |
| <b>3. High tariff</b>  |
| Set high tariff for selected terms.                            |

# settings

Easy and intuitive system setup.



## 1. System settings

|                |            |   |
|----------------|------------|---|
| [ autodetect ] |            | Click to find HEMS G2 in local network  |
| eStore         | C.....     | eStore serial number (automatically detected or can be entered manually).   |
|                | [ ] enable | When checked HEMS will read Grid, first plant and first Storage directly from eStore (so there is no need to duplicate power-sensor). |
|                | [detect]   | eStore address is cleared and new eStore can be detected.   |
| HIQ Home       | C.....     | HIQ Home serial number (automatically detected or can be entered manually).   |
|                | [ ] enable | When checked HEMS will read Grid power and energy from HIQ Home (so there is no need to duplicate power-sensor).                      |
|                | [detect]   | HIQ Home address is cleared so new can be detected.   |

## 2. Internet access

|            |   |
|------------|---|
| [ ] enable | When checked HEMS is automatically connected to HIQ Universe cloud service. The connection is initialized by the HEMS system and uses UDP packets on port 8442. |
| [test]     | New "push" message is sent to server and roundtrip time is rechecked.   |
| [reset]    | Clear messages counts and roundtrip time  |



|   |   |  |
|---|---|--|
| push timer                              | Timer in s for send “push” message to server  |  |
| messages                                | Sent “push” messages / responses counters   |  |
| roundtrip                               | Time in ms between sent push message and response.  |  |
| 3. Sources and Consumers settings table |   |  |
| SOURCES                                 | Source name   |  |
| icon                                    | Source icon   |  |
| source management                       | Source power-sensor management  |  |
|   | message   | Messages regarding source power-sensor   |
|   | add   | Associate new power-sensor to source   |
|   | del   | Disassociate power-sensor from source & configure it as new power-sensor   |
| meter                                   | Source power-sensor type  |  |
|   | in/ex   | Power plant connected <sup>1</sup>   |
| new device                              | Power-sensor configured as new one detected or wireless module configuration <sup>2</sup>               |  |
| Wireless setting                        | Setting up wireless modules: pairing, adding and delete the wireless modules and setting repeater level |  |
| CONSUMERS                               | Consumer name   |  |
| icon                                    | Consumer icon   |  |
| consumer management                     | Consumer meter and output management  |  |
|   | message   | Messages regarding consumer meter and output   |
|   | add   | Associate new power-sensor or new wireless module <sup>2</sup> to consumer   |
|   | del   | Disassociate power-sensor or wireless module <sup>2</sup> from consumer & configure it as new power-sensor or new wireless module <sup>2</sup> |
| meter                                   | Consumer meter type   |  |
| output                                  | Consumer output type  |  |
|   | <>>   | Setting repeater level <sup>3</sup>  |
| man. time                               | Manged consumer manual override timer   |  |
| out mode                                | Manged consumer output mode (normal or inverted)  |  |
| timetable                               | Manged consumer timetable execution enabled   |  |
| 4. Permanent memory parameters          |   |  |
| [init parameters]                       | Init all parameters to default value  |  |
| [save parameters]                       | Save all parameters to permanent memory   |  |
| [read parameters]                       | Read all parameters from permanent memory   |  |
| [ ] autosave parameters                 | Parameters will be automatically saved to permanent memory in 15 minutes after last parameter change    |  |
| 5. Backup / Restore to PC               |   |  |
| [backup]                                | Backup all parameters to PC   |  |
| [restore]                               | Restore all parameters from PC backup   |  |

<sup>1</sup> only for the first power plant

<sup>2</sup> wireless setting must be enabled

<sup>3</sup> only for wireless modules and wireless setting must be enabled

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