# HEMS G2 Configurator

hems_configurator_v1.0.4.exe

## home

Basic system overview.


| **1. Grid** | | |
|---|---|---|
| › | From grid | Tariff (LO, HI, D-LO, D-HI) and power from grid in W |
| | | Imported energy by tariff in Wh |
| ‹ | To grid | Power exported to grid in W |
| | | Exported energy in Wh |
| **2. Plants** | | |
| ‹ | Produced | Produced power in W and energy in Wh |
| › | Consumed | Consumed power in W and energy in Wh |
| **3. Storage systems** | | |
| ‹ | Sourced | Power in W and energy in Wh sourced from storage (battery) |
| › | Stored | Power in W and energy in Wh stored (to battery) |
| **bargraph and %**[1] | SOC | Battery State Of Charge |
| **4. Consumers** | | |
| › | Consumed | Consumed power in W and energy in Wh |

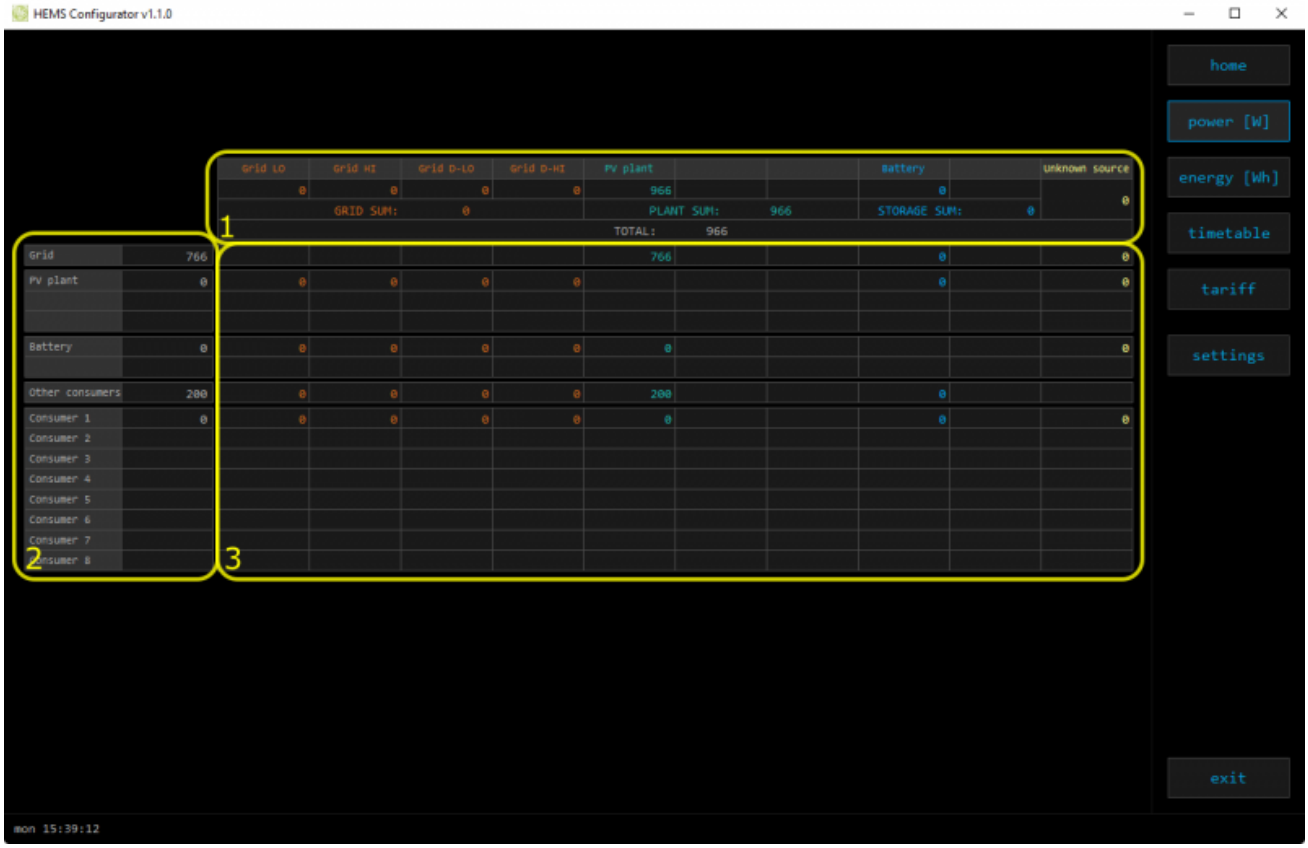
| | | |
|---|---|---|
| **[]** | Status | Output status for managed consumers |
| **bargraph**[2] | Analog out | Analog output value |
| **click** | Toggle | Click in frame toggles managed consumers output |
| **long-press**[2] | Set analog | Long press on first consumer pops-up dialog for analog value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

[1] only for eStore

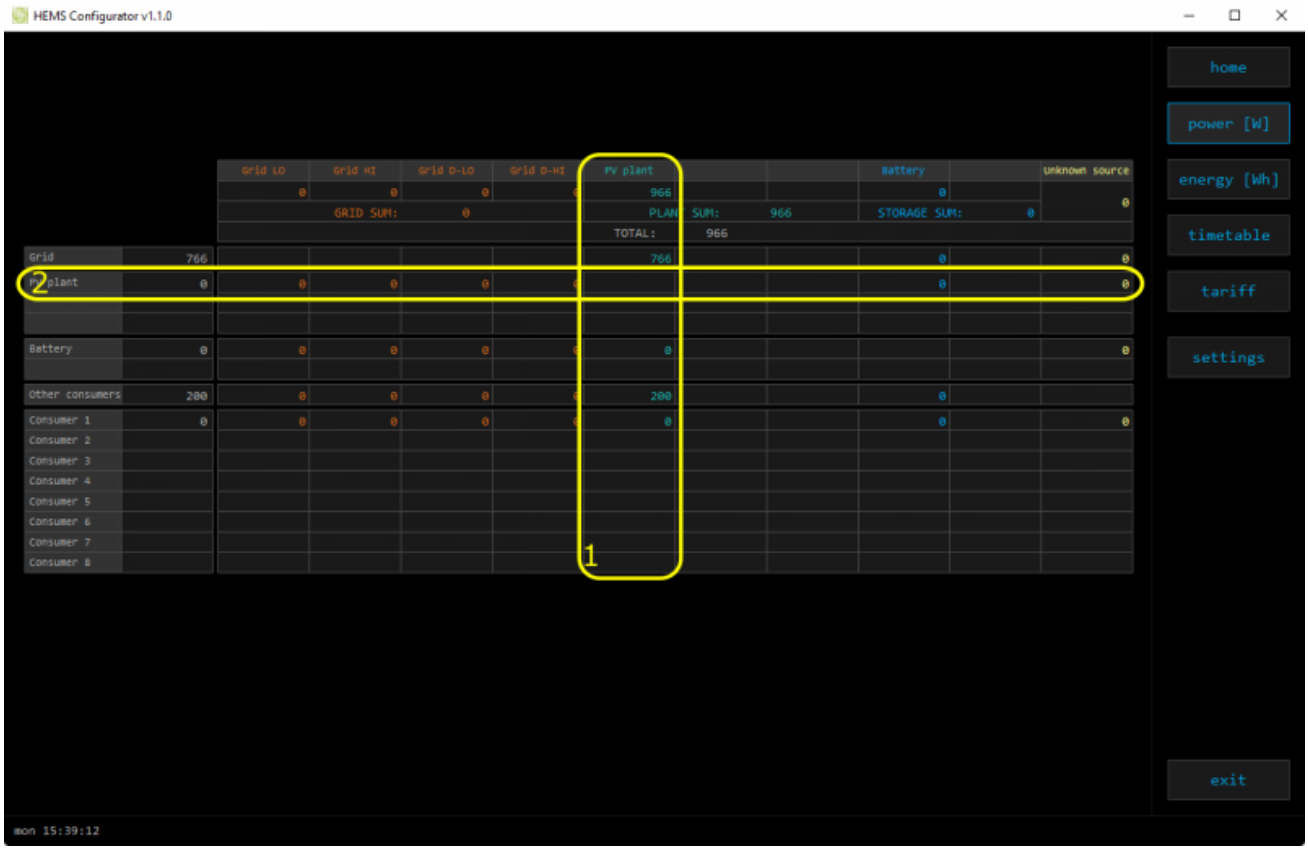
[2] only for first managed consumer

# power

Overview of current power distribution by source / consumer.



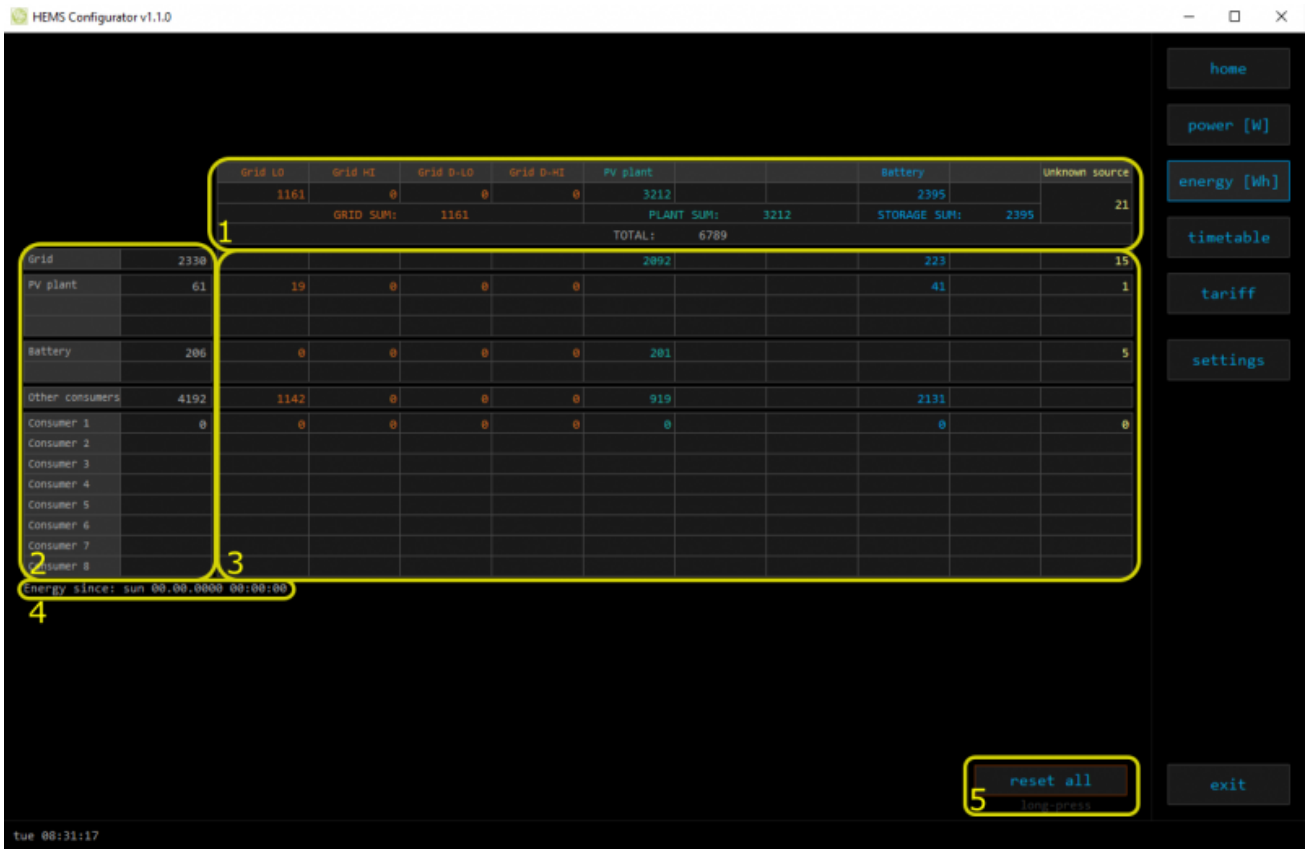

| **1. Sourced power** |
|---|
| Sourced power for each source |
| Sums per source type |
| Total of all sourced power |
| **2. Consumed power** |
| Power for each consumer |
| **3. Power distribution** |
| Partial distributed power |




| **1. Sourced power distribution** |
| --- |
| How sourced power is consumed by each consumer |
| **2. Consumed power distribution** |
| Who sources consumed power |

# energy

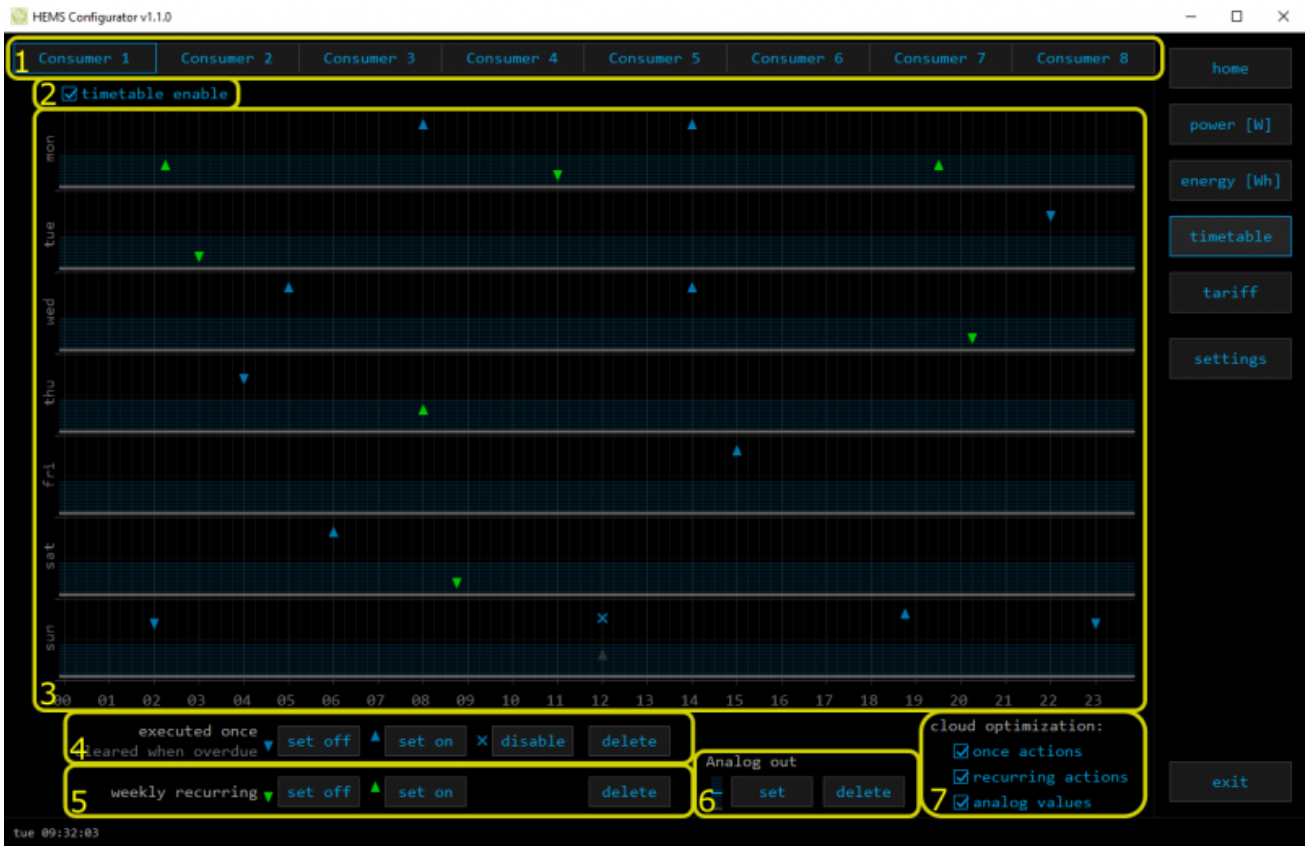
Energy overview of a given time distributed by sources / consumers.




| **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

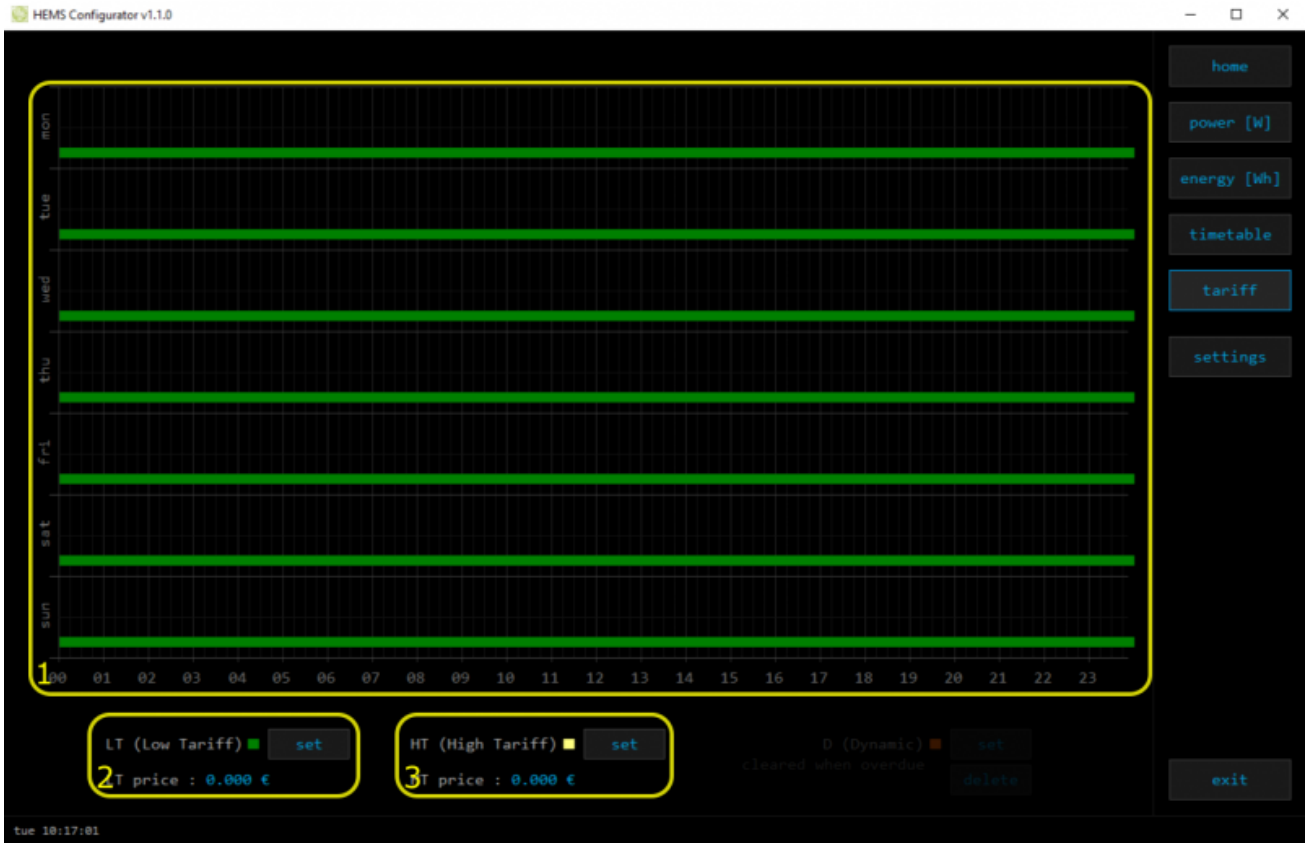
Weekly timetable for managed consumers.




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

# tariff

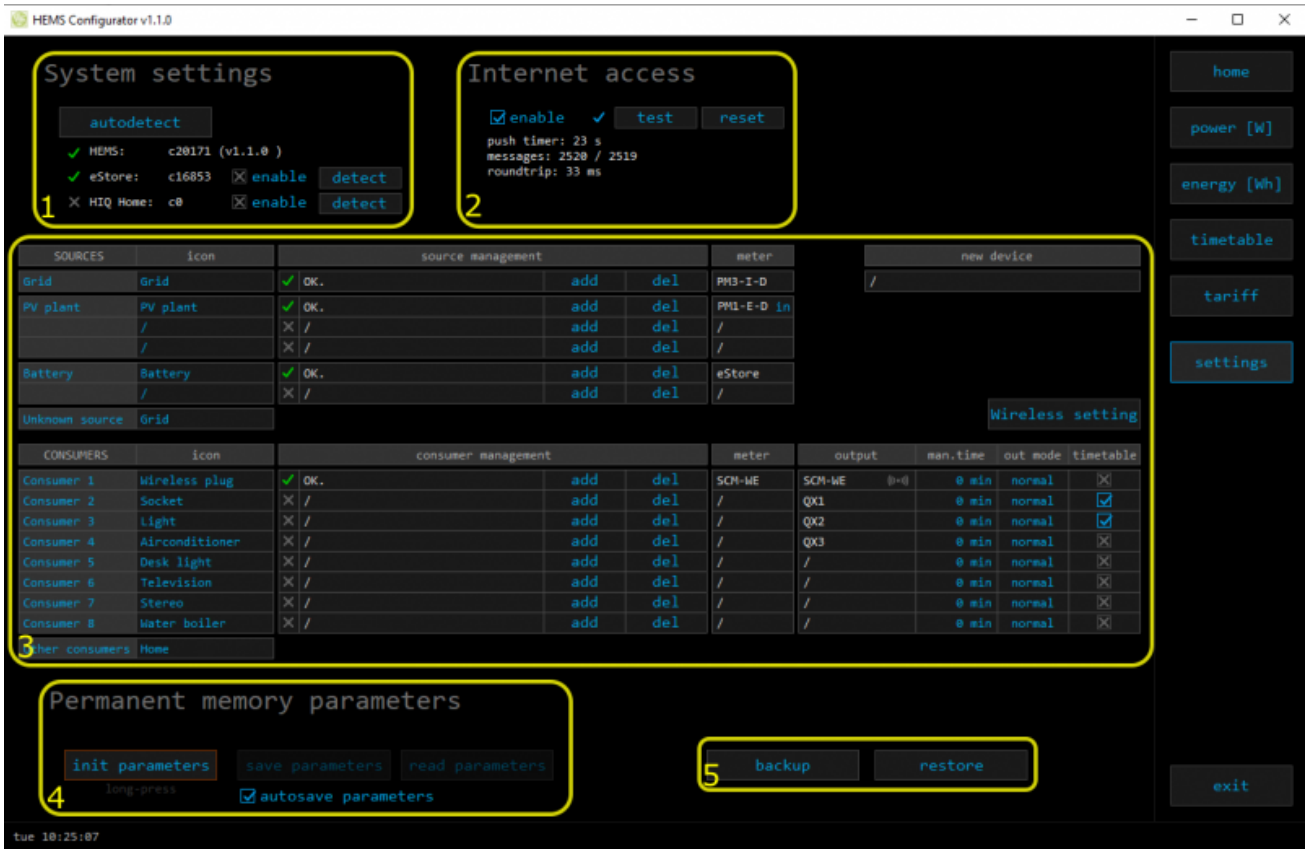
Weekly tariff timetable for grid energy per tariff distribution.




| **1. Tariff grid** |
|---|
| Graphical weekly timetable with tariffs. |
| Click to select term, click-and-drag to select multiple terms. |
| **2. Low tariff** |
| Set low tariff for selected terms. |
| **3. High tariff** |
| 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. Connection is initialized by 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[1] |
| new device | Power-sensor configured as new one detected or wireless module configuration[2] | |
| Wireless setting | Setting up wireless modules | |
| 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[2] to consumer |
| | del | Disassociate power-sensor or wireless module[2] from consumer & configure it as new power-sensor or new wireless module[2] |
| meter | Consumer meter type | |
| output | Consumer output type | |
| | ‹‹·›› | Setting repeater level[3] |
| 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 | |

[1] only for the first power plant

[2] wireless setting must be enabled

[3] only for wireless modules