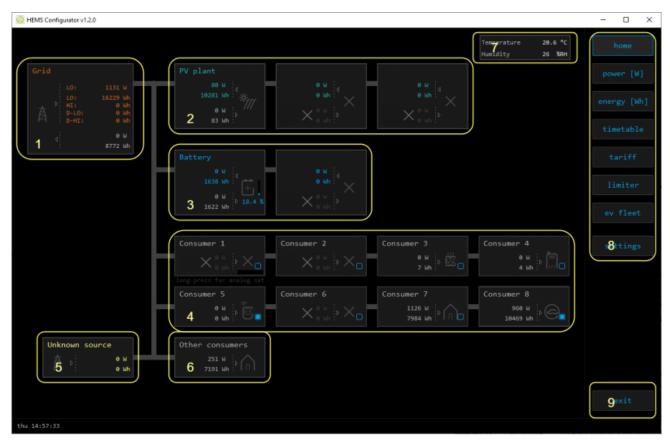
# **HEMS v1.2.2 Configurator**

### **HEMS** Configurator

## home

Basic system overview.



| 1. Grid                     |           |  |
|-----------------------------|-----------|--|
|                             | From grid | Tariff (LO, HI, D-LO, D-HI) and power from grid in W       |
| >                           | From grid | Imported energy by tariff in Wh                            |
|                             | To arid   | Power exported to grid in W                                |
| <                           | To grid   | 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 system           | S         |  |
| <                           | 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 % <sup>1</sup> | SOC       | Battery State Of Charge                                    |
| 4. Consumers                | -         |  |
| >                           | Consumed  | Consumed power in W and energy in Wh                       |

| []                      | Status      | Output status for managed consumers                                    |
|-------------------------|-------------|--|
| bargraph <sup>2</sup>   | Analog out  | Analog output value  |
| click                   | Toggle      | Click in frame toggles managed consumers output                        |
| long-press <sup>2</sup> | Set analog  | Long press on first consumer pops-up dialog for analog value set       |
| 5. Unknown sourc        | e           |  |
| >                       | Sourced     | Power in W and energy in Wh from unknown source                        |
|                         |             | all differences caused by power-sensor inaccuracy                      |
| 6. Other consume        | rs          |  |
| >                       | Consumed    | Consumed power in W and energy in Wh by other (not measured) consumers |
| 7. Temperature ar       | nd humidity |  |
|                         | Temperature | Temperature in <sup>o</sup> C  |
|                         | Humidity    | Humidity in % RH   |
| 8. Page navigation      | า           |  |
|                         | Home        | Home screen  |
|                         | Power [W]   | Power screen   |
|                         | Energy [Wh] | Energy screen  |
|                         | Timetable   | Timetable screen   |
|                         | Tariff      | Tariff screen  |
|                         | Limiter     | Limiterscreen  |
|                         | EV fleet    | EV fleet screen  |
|                         | IO mux      | IO mux screen  |
|                         | Settings    | Settings screen  |
| 9. Exit                 | -           | •  |
|                         | Exit        | Close appliction   |

<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

### 4. Submeter (Blue outline)

Power meter is not part of internal circuit

- http://wiki.hiq-home.com/

|                          |      | Grid LO<br>1140 |           | Grid D-LO<br>B | Grid D-HI | PV plant<br>8 78 |              |    |           | 0      | Unknown source |  |
|--------------------------|------|-----------------|-----------|----------------|-----------|------------------|--------------|----|-----------|--------|----------------|--|
| -                        |      |                 | GRID SUM: | 1140           |           | PLANT<br>TOTAL:  | SUM:<br>1218 | 78 | STORAGE S | iun: 0 |                |  |
| e-2                      | 0    |                 |           |                |           | 0                |              |    |           | 8      | 0              |  |
| PV plant                 | 0    |                 |           |                |           |                  |              |    |           |        | 0              |  |
| Battery                  | 9    |                 |           | 0              |           | 9 9              |              |    |           |        |                |  |
| Other consumers          | 258  | 241             |           | 0              |           | 9 17             |              |    |           | 8      |                |  |
|                          |      |                 |           |                |           |                  |              |    |           |        |                |  |
| Consumer 2<br>Consumer 3 | 0    |                 |           |                |           | 8 8              |              |    |           |        |                |  |
|                          | 9    |                 |           |                |           | 8 8              |              |    |           |        | 0              |  |
|                          |      |                 |           |                |           | 9 0              |              |    |           |        |                |  |
|                          |      |                 |           |                |           |                  |              |    |           |        |                |  |
|                          | 1132 |                 |           |                |           | 9 e              |              |    |           |        | 0              |  |
| Consumer 8               |      |                 |           |                |           | 8 <b>1</b> 61    |              |    |           |        |                |  |
|                          |      |                 |           |                |           |                  |              |    |           |        |                |  |

### 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.

| 🔯 HEMS Configurator v | /1.2.0     |               |         |           |           |          |       |         |      |                | - 🗆 X       |
|-----------------------|------------|---------------|---------|-----------|-----------|----------|-------|---------|------|----------------|-------------|
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       | ſ          | Grid LO       | Grid HI | Grid D-LO | Grid D-HI | PV plant |       | Battery |      | Unknown source | energy [Wh] |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            | 1             |         |           |           |          |       |         |      | Ň              |             |
|                       |            |               |         |           |           | TOTAL:   | 28148 |         |      |                |             |
| Grid                  | 8772       |               |         |           |           |          |       |         |      |                |             |
| PV plant              | 83         |               |         |           |           |          |       |         |      | 0              |             |
| Battery               | 1622       |               | 8       |           | 9         | 1289     |       |         |      | 0              |             |
|                       | 1          |               |         |           |           |          |       |         |      |                |             |
| Other consumers       | 7191       |               |         |           |           |          |       |         |      |                |             |
| Consumer 1            |            |               |         |           |           |          |       |         |      |                |             |
| Consumer 2            |            |               |         |           |           |          |       |         |      |                |             |
| Consumer 3            | 7          |               |         |           |           |          |       |         |      | 0              |             |
| Consumer 4            | 4          |               |         |           |           |          |       |         |      | 0              |             |
| Consumer 5            | Θ          |               |         |           |           |          |       |         |      | 0              |             |
| Consumer 6            |            | ~             |         |           |           |          |       |         |      |                |             |
| Consumer 8            | 7984       | <b>3</b> 7984 |         |           |           |          |       |         |      | 2              | 4           |
|                       | 10469      |               | 0       | 0         | 0         | 3418     |       | 628     |      |                | 7           |
| Energy since: sun     | 00.00.0000 | 88:88:88      |         |           |           |          |       |         |      |                |             |
|                       |            | )             |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       |         |      |                |             |
|                       |            |               |         |           |           |          |       | ,       |      |                |             |
|                       |            |               |         |           |           |          |       |         | 6nes | et all         |             |
| thu 14:59:21          |            |               |         |           |           |          |       |         |      |                |             |

- 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. Submeter (Blue outline)

Power meter is not part of internal circuit

### 5. Energy since

Date and time since energy is recorded

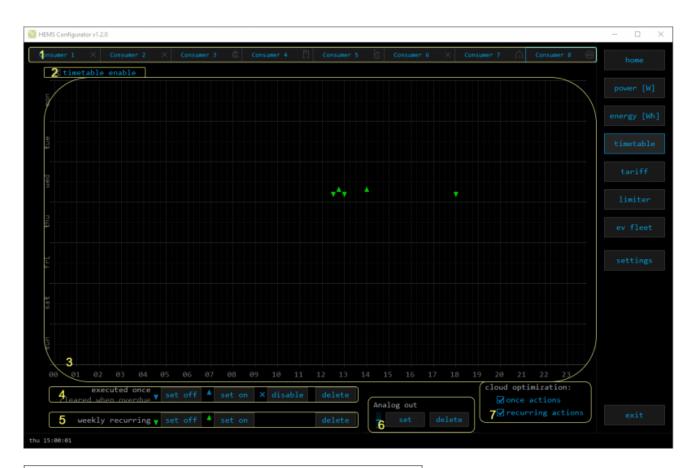
#### 6. Reset all

Long-press to reset all energy counters

Last update: 2021/11/03 14:56

## 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 <sup>1</sup>

Action to set analog output. Analog actions are recurring.

#### 7. Cloud optimization

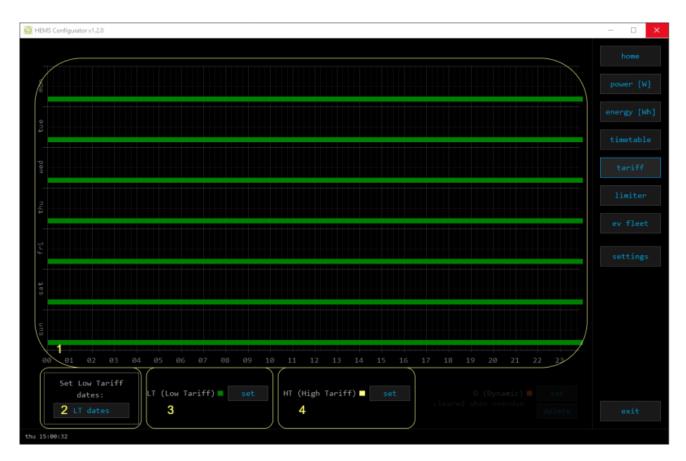
When enabled (checked) cloud optimization is enabled.

<sup>1</sup> only for Consumer 1

## tariff

Weekly tariff timetable for grid energy per tariff distribution.

7/15



### 1. Tariff grid

Graphical weekly timetable with tariffs.

Click to select term, click-and-drag to select multiple terms.

### 2. Low tariff dates

Set low tariff dates for holidays.

### 3. Low tariff

Set low tariff for selected terms.

### 4. High tariff

Set high tariff for selected terms.

## lo tariff dates

Holiday dates when tariff is low

| 6 H       | 🥘 HEMS - Set LO tariff dates 🛛 🗕 🗙 |           |           |            |    |  |  |  |  |
|-----------|------------------------------------|-----------|-----------|------------|----|--|--|--|--|
|           | Set                                | LO ta     | riff da   | ates       |    |  |  |  |  |
| /         |                                    | LO tari   | ff date   |            |    |  |  |  |  |
|           | day                                | month     | day       | month      |    |  |  |  |  |
|           | 88                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 88                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 88                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 80                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 81                                 | 80        | 80        | 80         |    |  |  |  |  |
| $\langle$ | 88                                 | 80        | 80        | 80         |    |  |  |  |  |
|           | 2Use ea                            | ster mond | ays (Roma | n Catholio | :) |  |  |  |  |
|           |                                    | ex        | it        |            |    |  |  |  |  |

### 1. Date table

Up to 24 days when tariff is low on holiday

#### 2. Use easter mondays

Use preprogrammed roman-catholic easter monday holidays

## limiter

## Overview and configuration of limiter

| HEMS Configurator v1.2.0 |      |              |        |     |           |           |      |          |           |     |                     |       |           |         | - 0      |
|--------------------------|------|--------------|--------|-----|-----------|-----------|------|----------|-----------|-----|---------------------|-------|-----------|---------|----------|
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          | (    | POW          | ER [W] |     | 6         | rrent [A] |      | Un Vn    | ltage [V] |     |                     | Curr  | ent limit | - FA1   |          |
|                          | Tota |              |        | L3  |           |           | L3   |          |           | L3  | Phase order         | L1    |           | L3      |          |
| srid                     | A 11 | 2 1105       | 42     | -26 | 4.8       | 0.4       | -1.8 | 231      | 233       | 234 | L1 L2 L3            | 6     | 20        | 20      |          |
| V plant                  |      | 90           |        | -90 |           |           | -1.0 |          |           | 234 | B                   |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     | 1 Pri | iority    | HAX [A] |          |
| attery                   | Ē.   |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          | ×    |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
| _                        |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
| onsumer 1                |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         | ev fleet |
|                          |      |              |        | 0   | 0.0       | 0.0       | 0.0  |          |           | 234 |                     |       |           | 4       |          |
|                          | D    |              |        | 0   |           |           | 0.0  |          |           | 233 |                     |       |           | 8       |          |
|                          | 16   |              |        | 0   |           |           | 0.0  |          |           | 0   |                     |       |           | 2       |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              | 42     | -11 |           | 0.3       | -2.1 | 23       |           | 234 | 1152 13<br>12 13 11 | 7     |           | 20      |          |
| Consumer 8               | 9    | 976<br>2 130 |        | 16  | 4.2       | 0.0       | 0.0  | 231      |           | 234 | L2 L3 L1            | No :  |           | 32      |          |
| ther consumers           | 2    | 130          |        | 48  | <b>.3</b> | 0.4       | -0.8 | <u> </u> |           |     | $\square$           |       |           |         |          |
| GRID FREQUENCY [Hz] 56   | 9,00 |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          | ō    |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |
|                          |      |              |        |     |           |           |      |          |           |     |                     |       |           |         |          |

| 1. Consumer managemen   | nt  |  |  |  |  |
|---|---|--|--|--|--|
| Turn consumers on or off  |   |  |  |  |  |
| 2. Power  |   |  |  |  |  |
| Total power and power for e   | each phase  |  |  |  |  |
| 3. Current  |   |  |  |  |  |
| Current for each phase  |   |  |  |  |  |
| 4. Voltage  |   |  |  |  |  |
| Voltage for each phase  |   |  |  |  |  |
| 5. Phase order  |   |  |  |  |  |
|   | er for grid power sensor and then set for other powers<br>nging grid phase order will NOT apply to phase order of other |  |  |  |  |
| 6. Current limit  |   |  |  |  |  |
| Current limit threshold for n   | nain grid fuse  |  |  |  |  |
| 7. Status, priority and cu  | irrent setpoint   |  |  |  |  |
| <u>▲</u> ▲  | Yellow status when limiter is enabled and active. Green status when enabled and not active                              |  |  |  |  |
| Priority Device priority group (no limiter, limit last, limit second, lim<br>first) |   |  |  |  |  |
| Max [A]1  | Device expected current draw  |  |  |  |  |
| 8. Grid frequency   |   |  |  |  |  |

Grid frequency measured on grid power meter sensor

<sup>1</sup> parameter is dynamically set for all devices, except for the EV charging stations

## ev fleet

## Overview and configuration of EV charging stations

| BEMS Configurator v1.2 | .0 |  |  |                                      | - 🗆 X |
|------------------------|----|--|--|--------------------------------------|-------|
|                        |    |  |  |                                      |       |
|                        |    |  |  |                                      |       |
| 1                      |    |  |  | Consumer 8                           |       |
|                        |    |  |  |                                      |       |
|                        |    |  |  |                                      |       |
| f f                    |    |  |  | f f                                  |       |
| 2                      |    |  |  |                                      |       |
|                        |    |  |  | Paused (EVSE)                        |       |
| 3                      |    |  |  | Phase L2<br>EV [A]: 0<br>MAX [A]: 32 |       |
|                        |    |  |  | Last session:                        |       |
| 4                      |    |  |  | 0 W<br>11465 Wh                      |       |
|                        |    |  |  | 044 h 59 min                         |       |
|                        |    |  |  |                                      |       |
| low Snip               |    |  |  |                                      |       |
|                        |    |  |  |                                      |       |
|                        |    |  |  |                                      |       |
|                        |    |  |  |                                      |       |
| fri 08:56:42           |    |  |  |                                      |       |

| 1. EV charging station management |                                |  |  |  |  |  |
|-----------------------------------|--------------------------------|--|--|--|--|--|
| Turn EV station on or off         |                                |  |  |  |  |  |
| 2. EV vehicle status              |                                |  |  |  |  |  |
| GREY                              | Stand by                       |  |  |  |  |  |
| RED                               | Error                          |  |  |  |  |  |
| YELLOW                            | Charging paused                |  |  |  |  |  |
| BLUE                              | Charging                       |  |  |  |  |  |
| GREEN                             | Charging ended                 |  |  |  |  |  |
| 3. EV charging station status     |                                |  |  |  |  |  |
| Status                            | Status of EV charging station  |  |  |  |  |  |
| Phase detection                   | Detection of utilized phases   |  |  |  |  |  |
| EV [A]                            | EV charger max allowed current |  |  |  |  |  |
| MAX [A]                           | User set MAX charging current  |  |  |  |  |  |
| 3. EV charging ses                | sion                           |  |  |  |  |  |
| Power                             | Actual power draw              |  |  |  |  |  |
| Energy                            | Energy delivered to EV         |  |  |  |  |  |
| Duration                          | Session charging duration      |  |  |  |  |  |

| neet |  |
|------|--|
|      |  |
|      |  |
|      |  |

Last update: 2021/11/03 14:56

## io mux

#### Overview and configuration of input/output ports IO mux

| EMS Configurator v1.2.2 | 2                                      |                    |  | - 0      |
|-------------------------|--|--------------------|--|----------|
| IO mux                  |  |                    |  |          |
|                         |  |                    |  |          |
|                         |  |                    |  |          |
|                         |  |                    |  |          |
|                         |  |                    |  |          |
|                         |  |                    |  |          |
| QXB                     | Select input/output type<br>Digital-1  | out mode<br>normal |  |          |
| QXB                     |  | normal             |  |          |
| QX2                     |  | normal             |  |          |
| QX3                     |  | normal             |  | ev fleet |
| 1012                    | Temperature sensor                     | normal             |  |          |
| 1013                    |  | normal             |  |          |
| 1014                    |  | normal             |  |          |
| 1015                    |  | normal             |  |          |
| IX0<br>IX1              | Toggle consumer-1<br>Toggle consumer-2 | normal             |  |          |
| 1X1                     | Toggle consumer-2                      | normal 2           |  |          |
|                         |  |                    |  |          |
| 12:42:38                |  |                    |  |          |
| 12142130                |  |                    |  |          |
| Calant                  | insuit (suitsuit, turs                 | aut and            |  |          |
| Select                  | input/output type                      | out mode           |  |          |

|      | Select input/output type | out mode |
|------|--------------------------|----------|
| QX0  | Digital-2                |          |
| QX1  | Digital-5                |          |
| QX2  | Digital-3                | normal   |
| QX3  | Digital-6                | normal   |
| 1012 | Temperature sensor       | normal   |
| I013 |                          | normal   |
| 1014 |                          | normal   |
| 1015 |                          | normal   |
| IX0  | Enable consumer-1        | normal   |
| IX1  | Toggle consumer-2        | normal   |
| IX2  | Toggle consumer-3        | normal   |
|      |                          |          |

### **1. Select input/output type**

On the left side there are defined MC controller (MC-230) ports to which could be assigned MC-230 functions (digital, linker reset, router reset, etc).

Default settings are for e.g.  $QX0 \rightarrow digital 1$  while digital 1 is defined for consumer 1 (settings page). It could be changed in a way to define new function to QX0 (linker reset)

If it is selected Enable consumer at input IX0,IX1 or IX2 it means that dedicated consumer will be managed (ON/OFF) by input signal on IXO,IX1 or IX2. For example, thermostat signal is wired to IXO port and via IO mux defined "Enable consumer 1" to IX0. While thermostat is active, it is consumer 1 active as well and vice versa.

Limitations: one temperature sensor is allowed, one consumer could be managed by one input only

#### 2. out mode

Managed consumer input/output mode (normal or inverted)

## settings

## Easy and intuitive system setup.

| Configurator v1.2.3  |            |            |              |              |                |                |           |              | - 🗆 X                            |
|--|------------|------------|--------------|--------------|----------------|----------------|-----------|--------------|----------------------------------|
| System settings    autodetect    HEMS: c20171 (v1.2.3 )    estore: c17456 enable   |            |            |              |              |                |                |           |              | home<br>power [W]<br>energy [Wh] |
| X HIQ Home: c0 X enable detect   |            |            |              |              |                |                |           |              |                                  |
| X Virtual grid PS: Reable 1<br>Modbus cycle time: 4638 ms 2  |            |            |              |              |                |                |           |              |                                  |
| SOURCES icon source management   | Υ          |            | meter        | sub          |                | new devic      | :e        |              |                                  |
| Grid Grid \Lambda 🗸 🕶  | add        |            | PM3-E-D      |              | 1              |                |           |              | tariff                           |
| / Хик.   | add        | del        | PM1-E-D in   | X            |                |                |           |              |                                  |
| / × × /  | add        |            | 1            | X            |                |                |           |              | limiter                          |
|  | add        |            | 1            | $\times$     |                |                |           |              | limiter                          |
| Battery 🗍 🗸 OK.  | add        |            | eStore       | $\mathbf{X}$ |                |                |           |              |                                  |
| $\times \times \times$   | add        |            | 1            | $\times$     |                |                |           |              | ev fleet                         |
|  |            |            |              |              | 9              |                |           | ting         |                                  |
| CONSUMERS icon consumer management   |            |            | meter        | sub          | output         | man.time       | P nominal | 0            | IO mux                           |
| Washing machine  | add        |            | 1            | $\mathbf{X}$ | Digital-1      |                |           | $\mathbf{X}$ |                                  |
| tan de la serie 🖊 en la serie de la X 🗙 🖊 en la serie de | add        |            | 1            | $\times$     | Digital-2      |                |           | ×            | settings                         |
| / Х И К.   | add        |            | PM3-E-D      | $\mathbf{X}$ | Digital-3      |                |           | ×            | Ľ                                |
| Heat-pump 💽 🗸 OK.  | add        |            | PM1-E-D      | X            | Digital-4      |                |           | X            |                                  |
| Wireless plug   G   × /     Socket   ∅   ✓ 0K  | add<br>add | del<br>del | /<br>PM3-I-D | X            | /              | 0 min<br>0 min |           | X            |                                  |
| Electric car   | add        |            | EVSE NOON    | R            | /<br>EVSE MOON | 0 min<br>0 min |           | X            |                                  |
| Electric car   | add        |            | INCH clust   | X            | INCH clust     |                |           | X            |                                  |
| 3 Hone 4 5   | 16         |            | <b>7</b>     | 8            | 10             |                |           |              |                                  |
| Permanent memory parameters<br>init parameters save parameters read parameters<br>long-press @ autosave parameters   |            | 12         | backup       |              | res            | tore           |           |              |                                  |
| fri 11:25:32   |            |            |              |              |                |                |           |              |                                  |

## 1. System settings

| [ autodetect ]                          |   | Click to find HEMS in local network   |  |  |  |
|---|---|---|--|--|--|
|   | c   | eStore serial number (automatically detected or can be entered manually).   |  |  |  |
| eStore                                  | [] enable   | When checked HEMS will read Grid, first plant and first<br>Storage directly from eStore (so there is no need to<br>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.   |  |  |  |
| Virtual grid PS                         | [] enable   | Check if system is without main grid power meter. Energy, power and currents are calculated from other power meters.                        |  |  |  |
| 2. Modbus cycle time                    |   |   |  |  |  |
| Modbus cycle time                       | Time in ms for modbus communication to complete reading of all connected devices. |   |  |  |  |
| 3. Sources and Consumers settings table |   |   |  |  |  |
| SOURCES                                 | Source name   |   |  |  |  |
| icon                                    | Source icon   |   |  |  |  |
| 4. Device status                        |   |   |  |  |  |

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| Status                          | Status OK, Warning, Error, Detected   |  |  |  |  |  |
|---------------------------------|---|--|--|--|--|--|
| 5. Device message               |   |  |  |  |  |  |
| source and consumer             | Source or consumer power-sensor management  |  |  |  |  |  |
| management                      | message Messages regarding source or consumer power-sensor  |  |  |  |  |  |
| 6. Device configuration         |   |  |  |  |  |  |
| Configuration                   | add   | Associate new power-sensor to source or consumer                                     |  |  |  |  |
|                                 | del   | Disassociate power-sensor from source or consumer & configure it as new power-sensor |  |  |  |  |
| 7. Device type                  |   |  |  |  |  |  |
| meter                           | Source or consumer power-sensor type  |  |  |  |  |  |
| configuration                   | in/ex   | Power plant connection <sup>1</sup>  |  |  |  |  |
| 8. Submeter option              |   |  |  |  |  |  |
| sub                             | Check if this power meter or device is not part of internal circuit.<br>Energy division for this device is ignored and outlined in blue border. |  |  |  |  |  |
| 9. Wireless settigs             |   |  |  |  |  |  |
| 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   |  |  |  |  |  |
| 10. Device output               | 10. Device output   |  |  |  |  |  |
| output                          | Select consumer output type   |  |  |  |  |  |
| output                          | <<>>  | Set repeater level <sup>3</sup>  |  |  |  |  |
| man. time                       | Manageo   | Managed consumer manual override timer   |  |  |  |  |
| P nominal                       | Enter consumer's power in Watts. It is disabled if there is assigned power sensor to this consumer.   |  |  |  |  |  |
| clock                           | Enable timetable  |  |  |  |  |  |
| 11. Permanent memory parameters |   |  |  |  |  |  |
| [init parameters]               | Init all parameters to default values   |  |  |  |  |  |
| [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  |  |  |  |  |  |
| 12. Backup / Restore to PC      |   |  |  |  |  |  |
| [backup]                        | Backup all parameters to PC <sup>4</sup>  |  |  |  |  |  |
| [restore]                       | Restore all parameters from PC backup <sup>4</sup>  |  |  |  |  |  |
|                                 |   |  |  |  |  |  |

<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

<sup>4</sup> older versions of backup files may be used. Any unsuccessfully backed or restored parameters will be displayed but operation will end successfully if you use **continue**.

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