HEMS G2 Configurator

hems_configurator_v1.0.4.exe

home

Basic system overview.

HEMS Configurator v1.1.0		- 🗆 X
	Temperature 23,5 °C Hymidity 52 %RH	
Grid	PV plant	
LO: 1372 Wh HI: 0 Wh D-LO: 0 Wh		
Рі D-HI: 0 Wh 0 W 1 18 Wh	2 ^ e wh i' ^ e wh i'	
	3 ^ e wh i ^p	
	Consumer1 Consumer2 Consumer3 Consumer4	
	Consumer5 Consumer6 Consumer7 Consumer8	
	$4 \times_{\mathrm{e}\mathrm{sh}}^{\mathrm{e}\mathrm{sh}} \mathbb{E}_{o} \times_{\mathrm{e}\mathrm{sh}}^{\mathrm{e}\mathrm{sh}} \mathbb{E}_{o} \times_{\mathrm{e}\mathrm{sh}}^{\mathrm{e}\mathrm{sh}} \mathbb{E}_{o} \times_{\mathrm{e}\mathrm{sh}}^{\mathrm{e}\mathrm{sh}} \mathbb{E}_{o}$	
Unknown source	Other consumers	
5 × 18 Wh	6 1372 Wh	
mon 11:25:59		

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	ms				
<	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 sour	ce						
>	Sourced	Power in W and energy in Wh from unknown source					
	Accumulate als	so all differences caused by power-sensor inaccuracy					
6. Other consum	ers						
>	Consumed	Consumed power in W and energy in Wh by other (not measured) consumers					
7. Temperature a	7. Temperature and humidity						
	Temperature	Temperature in ^o C					
	Humidity	Humidity in % RH					

¹ only for eStore

² only for first managed consumer

power

Overview of current power distribution by source / consumer.

HEMS Configurator v1.	1.1.0									- 🗆 ×
	C	erid Lo	Grid HI	Grid D-LO	PV plant		Battery	Unknown source	١	
								9		
					TOTAL:	966				
Grid	766				766			0)	
PV plant	θ									
Battery	0									
Other consumers	288		9	8	200					
Consumer 1	0									
Consumer 2										
Consumer 3										
Consumer 4										
Consumer 5 Consumer 6										
Consumer 6 Consumer 7										
2nsumer 8		3								
		ļ							_	
mon 15:39:12										

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

With Congrege 1 and the second of the sec

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.

S HEMS Configurator v	1.1.0								- 🗆 X
	(Grid LO						Unknown source	energy [Wh]
								21	
		1				6789			timetable
Grid	2330				2092		223	15	
PV plant	61							1	
Battery	206	0	0	0	201			5	
outery	200							,	
Other consumers	4192								
Consumer 1	0							0	
Consumer 2 Consumer 3									
Consumer 4									
Consumer 5									
Consumer 6 Consumer 7									
2isumer 8		3							
Energy since: sun	00.00.0000	00:00:00							
4									
								et all	
tue 08:31:17									

- 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

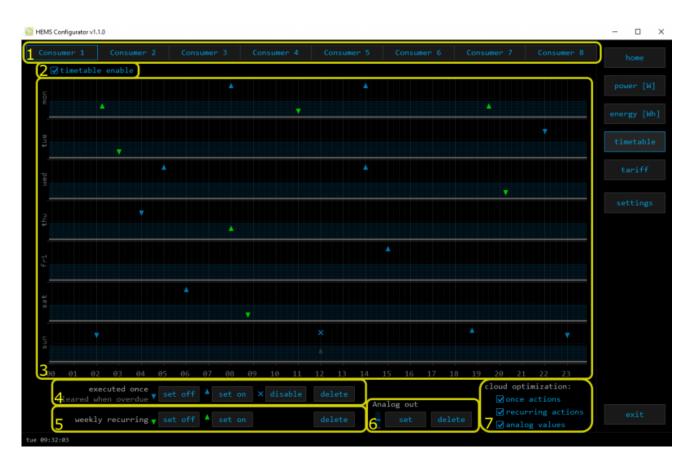
Date and time since energy is recorded

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.

Sent HEMS Configurator v1.1.0	- 🗆 ×
LO E	
tue	
Med	
thu	
581	
nus	
100 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
LT (Low Tariff) set D (Dynamic) set Cleared when overdue	
2T price : 0.000 € 3T price : 0.000 € delete	

7/10

1 . '	Tariff	grid
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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.

😳 HEMS Configurato	r v1.1.0									- 🗆 X
) Jest timessage: able detect	enet ac ble ✓ her: 23 s 1: 2520 / 251 hp: 33 ms		reset					home power [W] energy (Wh)
SOURCES	icon	source management			meter		new o	levice		
Grid	Grid	✓ ок.	add	del	PM3-I-D	1				
PV plant	PV plant	✓ ок.			PM1-E-D in					
		× /			1					
Battery		🗸 ок.			eStore					
		× /			1					
Unknown source									setting	
CONSUMERS		consumer managemen			meter		man.time	out mode	timetable	
Consumer 1		🗸 ок.			SCM-WE	SCM-WE (X	
Consumer 2		× /			1	QX1				
Consumer 3					1	QX2				
Consumer 4						QX3			X	
Consumer 5					1				X	
Consumer 6					/				X	
Consumer 7					1				X	
Consumer 8	Water boiler						0 min		X	
other consumers	Hone									
		ry parameters read parameters utosave parameters			5 back	up	restore			

1. System settings

I. System settings							
[autodet	tect]	Click to find HEMS G2 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 Storage directly from eStore (so there is no need to duplicate power-sensor).					
	[detect]	eStore address is cleared and new eStore can be detected.					
	c	HIQ Home serial number (automatically detected or can be entered manually).					
HIQ Home	[] 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 se	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	source name					
icon	source icon	source icon					
	source power-se	ensor management					
	message	messages regarding source power-sensor					
source management	add	associate new power-sensor to source					
	del	disassociate power-sensor from source & configure it as new power-sensor					
matar	source power-se	ensor type					
meter	in/ex	power plant connected ¹					
new device	power-sensor co configuration ²	onfigured as new one detected or wireless module					
Wireless setting	setting up wirele	ess modules					
CONSUMERS	consumer name						
icon	consumer icon						
	consumer meter and output management						
	message	messages regarding consumer meter and output					
consumer management	add	associate new power-sensor or new wireless module ² to consumer					
management	del	disassociate power-sensor or wireless module ² from consumer & configure it as new power-sensor or new wireless module ²					
meter	consumer meter	r type					
outout	consumer outpu	t type					
output	<<·>>	setting repeater mode ²					
man. time	manged consum	ner manual override timer					
out mode	manged consum	ner output mode (normal or inverted)					
timetable	manged consum	ner timetable execution enabled					
4. Permanent memo	ry parameters						
[init parameters]	init all paramete	ers to default value					
[save parameters]	save all parameters to permanent memory						
[read parameters]	read all paramet	ters from permanent memory					
[] autosave	parameters will be automatically saved to permanent memory in 15						
parameters	minutes after last parameter change						
5. Backup / Restore	1						
[backup]	backup all parar						
[restore]	restore all parar	neters from PC backup					

 $^{\scriptscriptstyle 1}$ only for the first power plant

² wireless setting must be enabled

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