HEMS G2 Configurator

hems_configurator_v1.0.4.exe

home

Basic system overview.

HEMS Configurator v1.1.0					– 🗆 🗙
				Temperature 23,5 °C Hymidity 52 %RH	home
Grid	PV plant	e w 🗄	e w 1.		power [W]
LO: 0 W LO: 1372 Wh HI: 0 Wh D-LO: 0 Wh D-HI: 0 Wh			e uh d		energy [Wh]
e w	2 ^ e wh !"	∧ e Mh [™]	∧ e tih !"		timetable
1 18 Wh		a 11 1			tariff
	ем емі з Хемір сілір	e w e wh e wh e wh e wh			settings
	Consumer1 Con	nsumer2	Consumer3	Consumer4	
	e W e Wh long-press for enalog set	e w e wh	X 🛯 🗤 🕨 🖸 🗖	× 🖏 🕨 🖾 🗖	
	Consumer5 Con	sumer6	Consumer7	Consumer8	
	4 ×° № № ©₀		×° ™ ° ™ P © □		
Unknown source	Other consumers				
5 ^{[A] ¹: 18 Wh}	6 1372 Wh (* 1 1				
					exit
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 grid	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 source							
>	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	and humidity	1					
	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.	1.0										-	□ ×
		Grid LO	Grid HI	Grid D-LO	Grid D-HI	PV plant		Battery		Unknown source		
									9		ene	
	- I -	1								•		
	-					TOTAL :	966				ti	
Grid	766									9		
PV plant	0											
Battery	8										s	
Other consumers	280	0							9			
Consumer 1	0											
Consumer 2												
Consumer 3 Consumer 4												
Consumer 5												
Consumer 6												
Consumer 7												
2nsumer 8		3									J	
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

				PV plant				Unknown source	
				 966				e	
				PLAN	SUM:				
				TOTAL:	966				
arid 760	-			766			0	0	
2plant (3 (9 9	9				0	0	
								and the second second second	
attery g	9 (9					
ther consumers 200	3 (8 8		 200					
	9 (0					
Consumer 4									
lonsumer 6									
onsumer 7									
onsumer 8				1					

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								- 0 ×
	(Grid LO			PV plant		Battery	Unknown source	energy [Wh]
								21	
	t	1			TOTAL:	6789			timetable
Grid	2330				2092		223	15	
PV plant	61	19	0	0			41	1	
Battery	206							5	
Other consumers	4192								
Consumer 1	0							0	
Consumer 2									
Consumer 3 Consumer 4									
Consumer 5									
Consumer 6									
Consumer 7		2							
Asumer 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

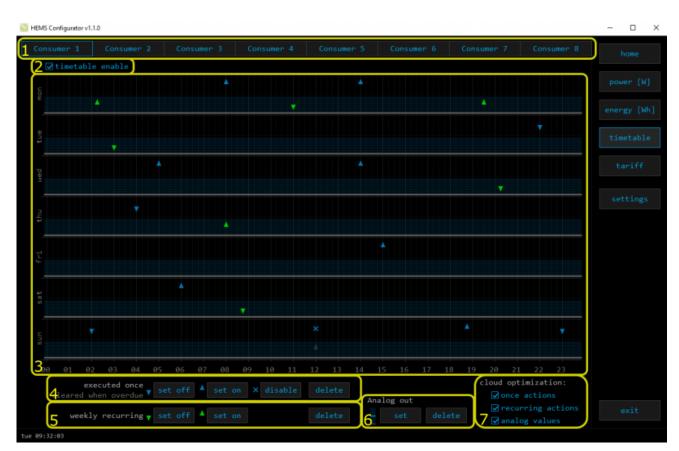
Date and time since energy is recorded

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 be	elow
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 recurrin	ıg.
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.

7/10

settings

Easy and intuitive system setup.

HEMS Configurato	r v1.1.0									- 🗆 X
		y en push t messag	nnet ac able ✓ imer: 23 s es: 2520 / 251 rip: 33 ms		reset					
SOURCES	icon	source management	nt		meter	3133	new (device		
Grid	Grid	✓ ок.	add	del	PM3-I-D	1				
PV plant	PV plant	✓ ок.	add		PM1-E-D in					
		× 7			1					
Battery		✓ OK.			eStore					
		× 7			1					
Unknown source									setting	
CONSUMERS		consumer managem			meter		man.time	out mode	timetable	
Consumer 1	Wireless plug	✓ 0K.			SCM-WE	SCM-WE 0+			X	
Consumer 2		× /	add		1	QX1				
Consumer 3					1	QX2			N	
Consumer 4					1	QX3			X	
Consumer 5					1				X	
Consumer 6					1				X	
Consumer 7									X	
Consumer 8	Water boiler								X	
Uther consumers	Home									
		ry parameters ve parameters read parameter uutosave parameters	ns.		5 backt	hb	restore			

1. System settings

I. System settings						
[autod	etect]	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" r	nessage is sent to server and roundtrip time is rechecked.				
[reset]	Clear messag	es counts and roundtrip time				
push timer	Timer in s for	send "push" message to server				

	1							
messages	Sent "push" messages / responses counters							
roundtrip		Time in ms between sent push message and response.						
3. Sources and Cons	umers settings	table						
SOURCES	Source name	Source name						
icon	Source icon							
	Source power-sensor 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						
meter	Source power-se	nsor type						
meter	in/ex	Power plant connected ¹						
new device	Power-sensor co configuration ²	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 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						
munugement	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						
	Consumer outpu	t type						
output	<<·>>	Setting repeater level for wireless modules ²						
man. time	Manged consum	er manual override timer						
out mode	Manged consum	er output mode (normal or inverted)						
timetable	Manged consum	er timetable execution enabled						
4. Permanent memo	-							
[init parameters]		rs to default value						
[save parameters]	· ·	ters to permanent memory						
[read parameters]	· ·	ters from permanent memory						
[] autosave parameters	Parameters will I	be automatically saved to permanent memory in 15 st parameter change						
5. Backup / Restore	1							
[backup]	Backup all paran	neters to PC						
[restore]	· · ·	neters from PC backup						

¹ only for the first power plant

² wireless setting must be enabled

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Last update: 2020/07/01 06:20