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

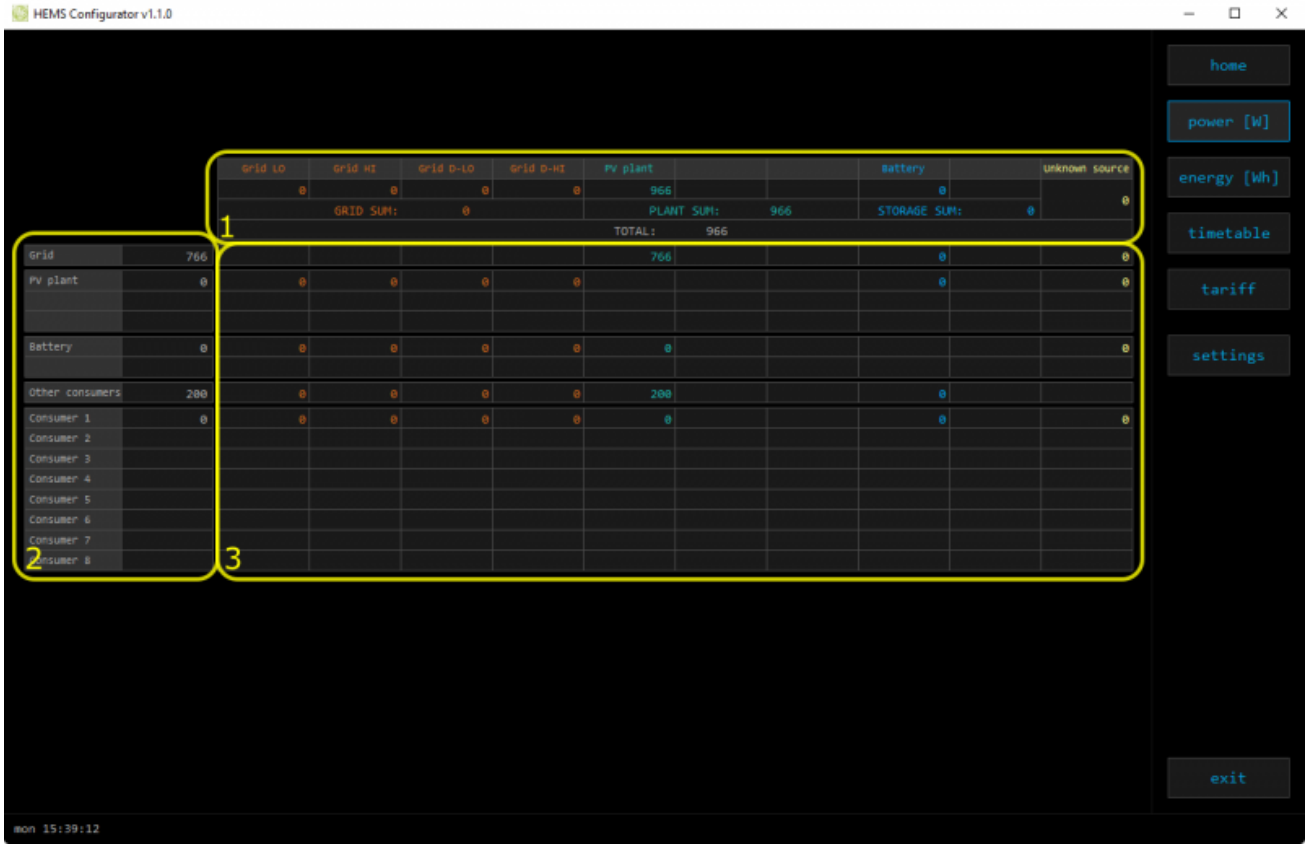
[]	Status	Output status for managed consumers
bargraph[2]	Analog out	Analog output value
click	Toggle	Click in frame toggles managed consumers output
long-press[2]	Set analog	Long press on first consumer pops-up dialog for analog value set
5. Unknown source		
›	Sourced	Power in W and energy in Wh from 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

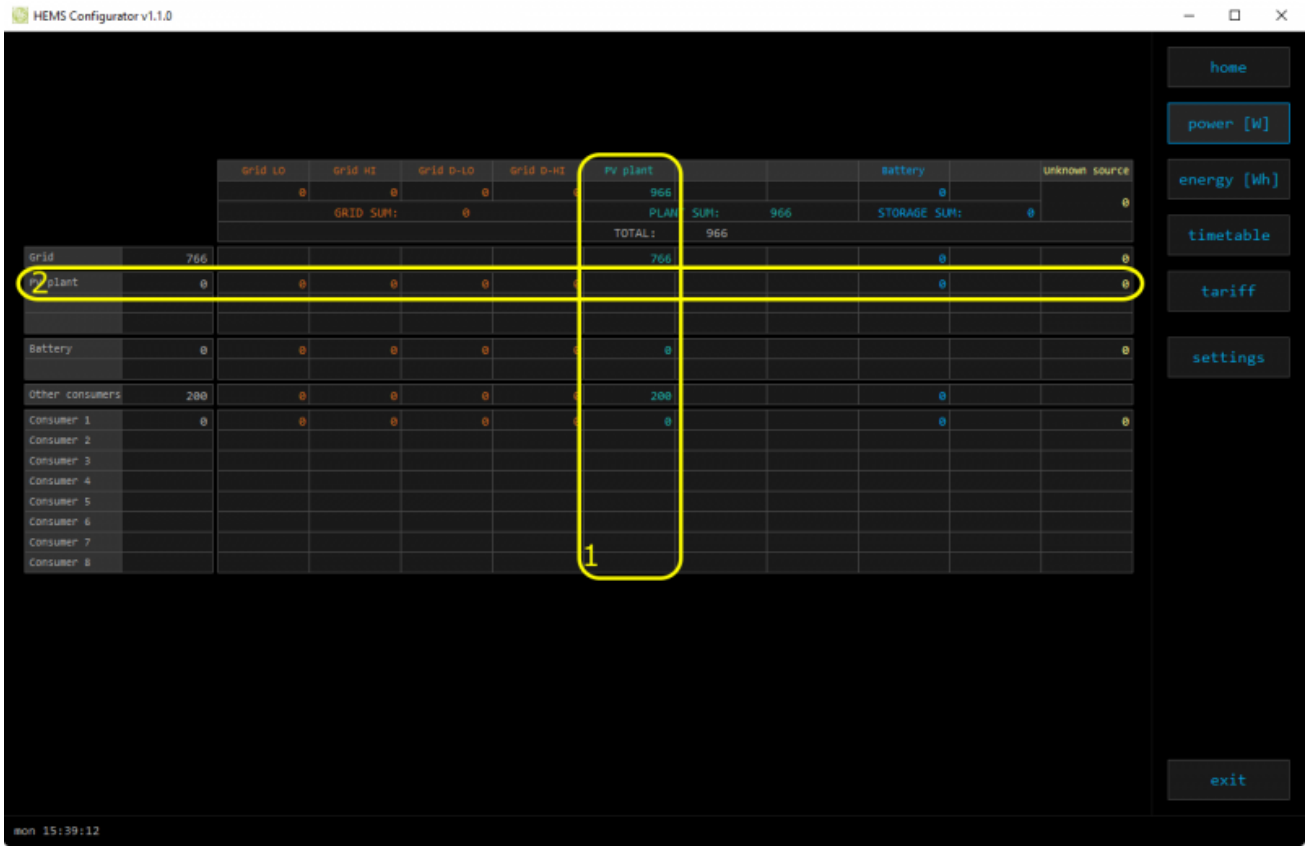
[2] only for first managed consumer

power

Overview of current power distribution by source / consumer.



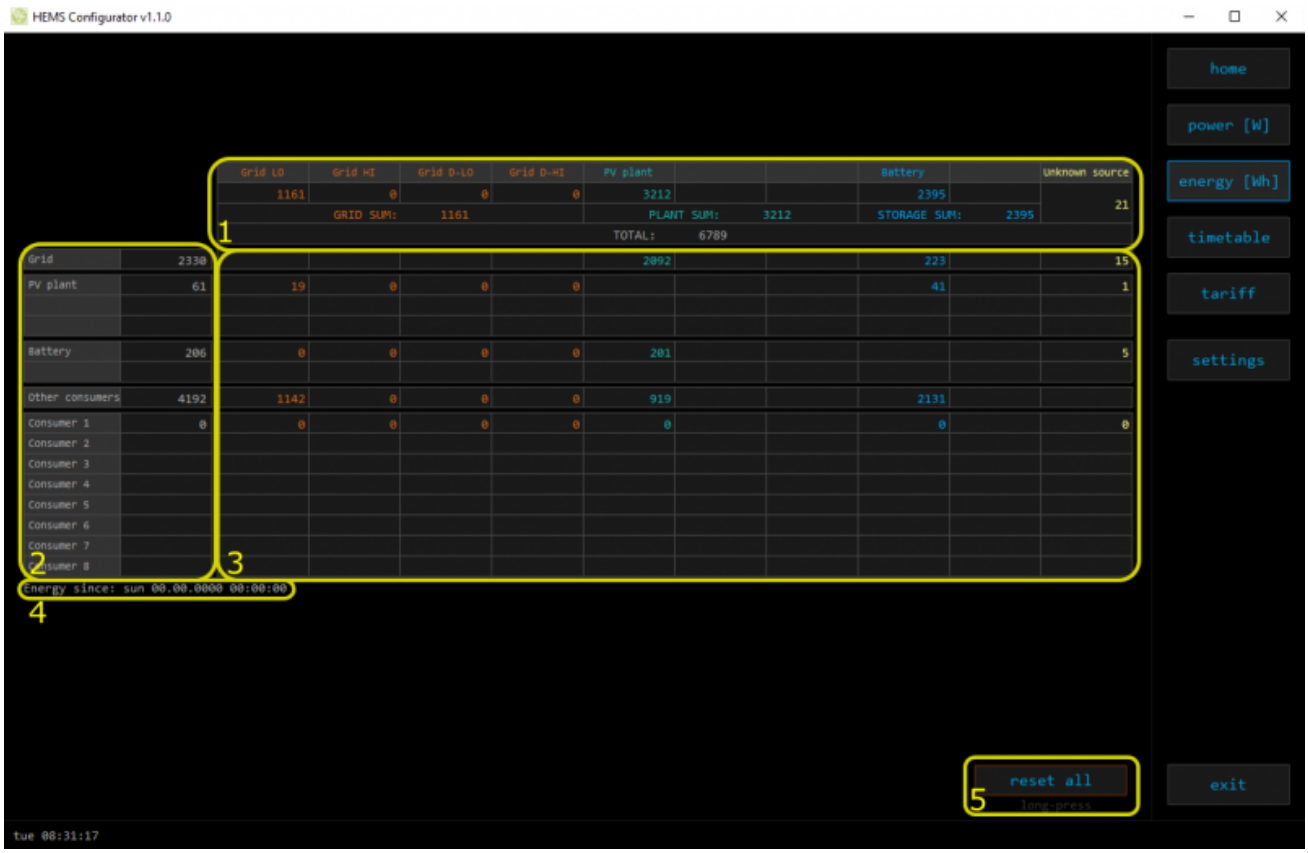
1. Sourced power
Sourced power for each source
Sums per source type
Total of all sourced power
2. Consumed power
Power for each consumer
3. Power distribution
Partial distributed power



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

energy

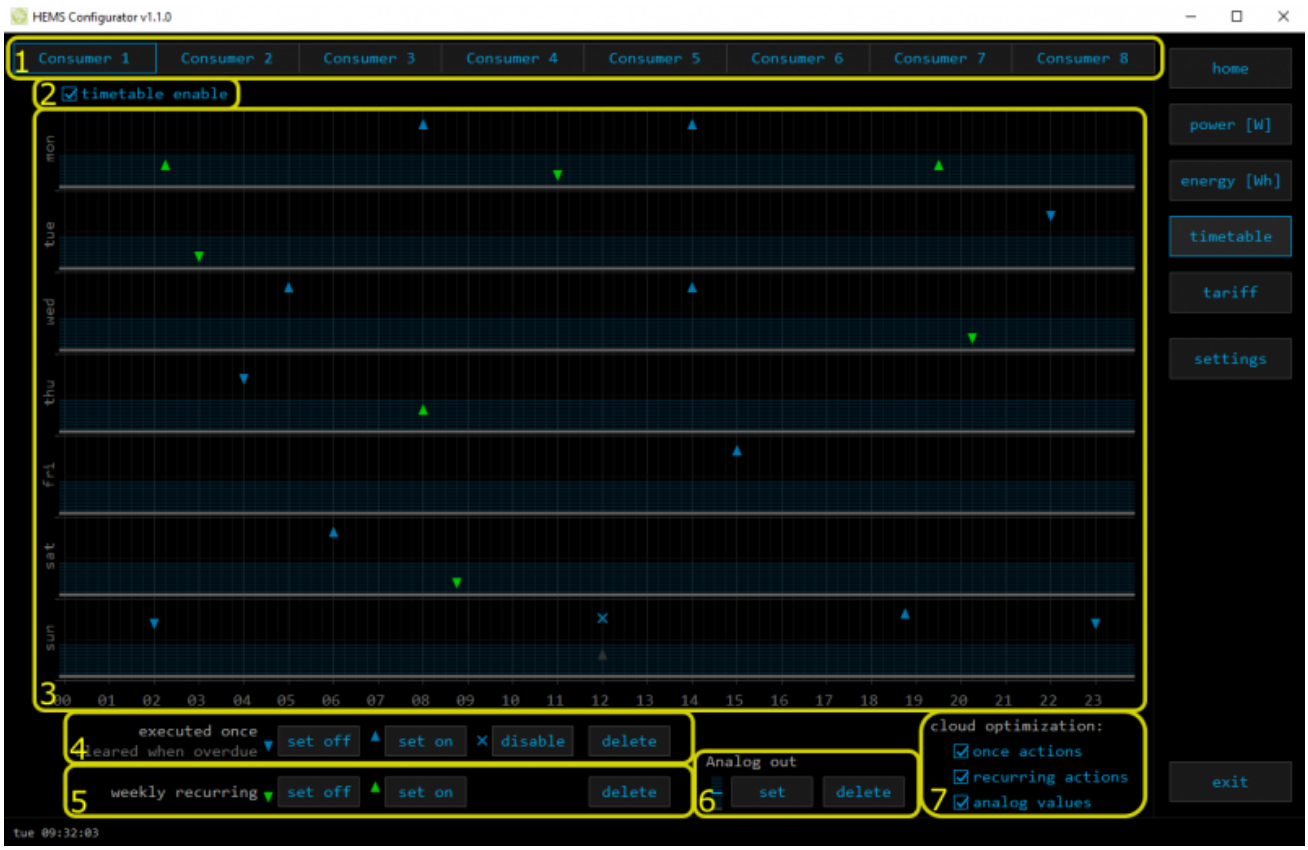
Energy overview of a given time distributed by sources / consumers.



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

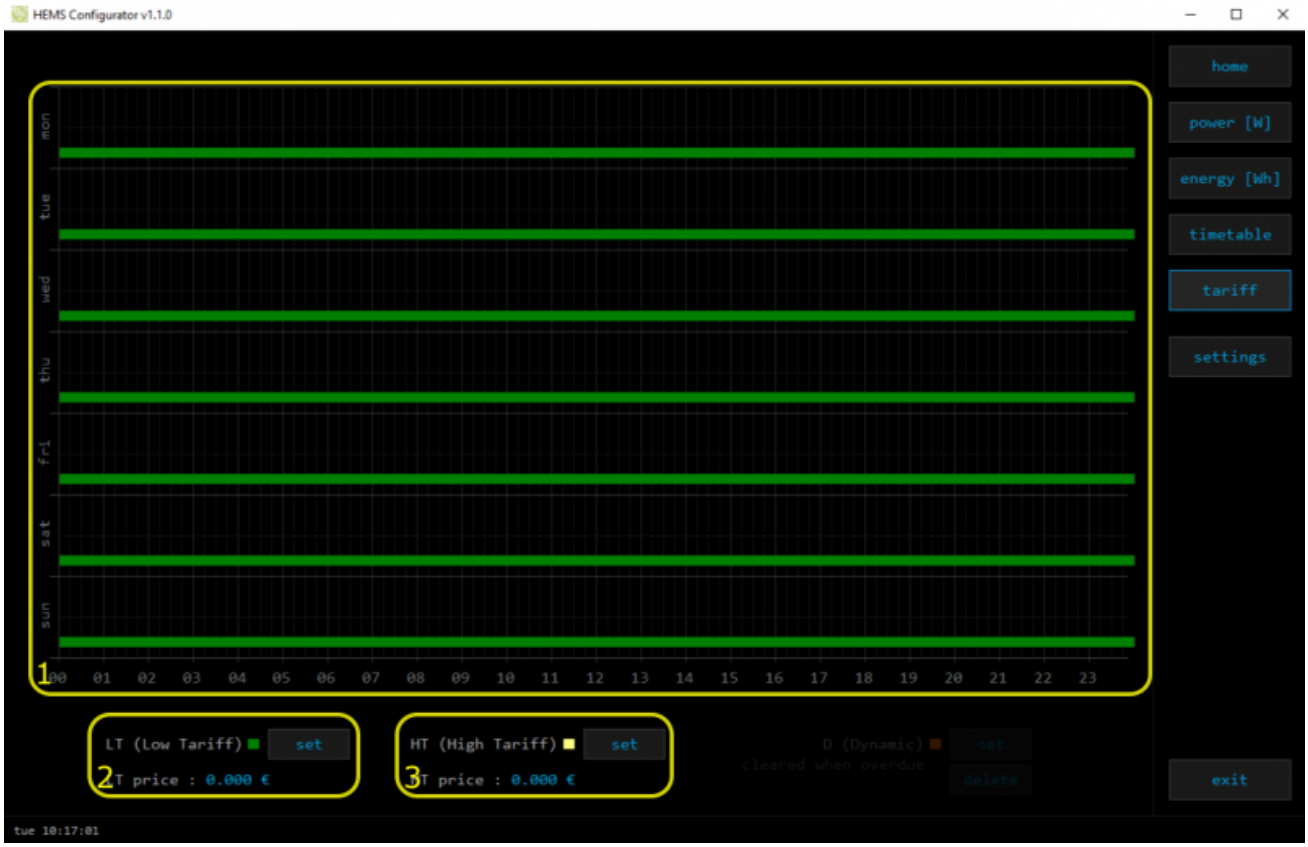
Weekly timetable for managed consumers.



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

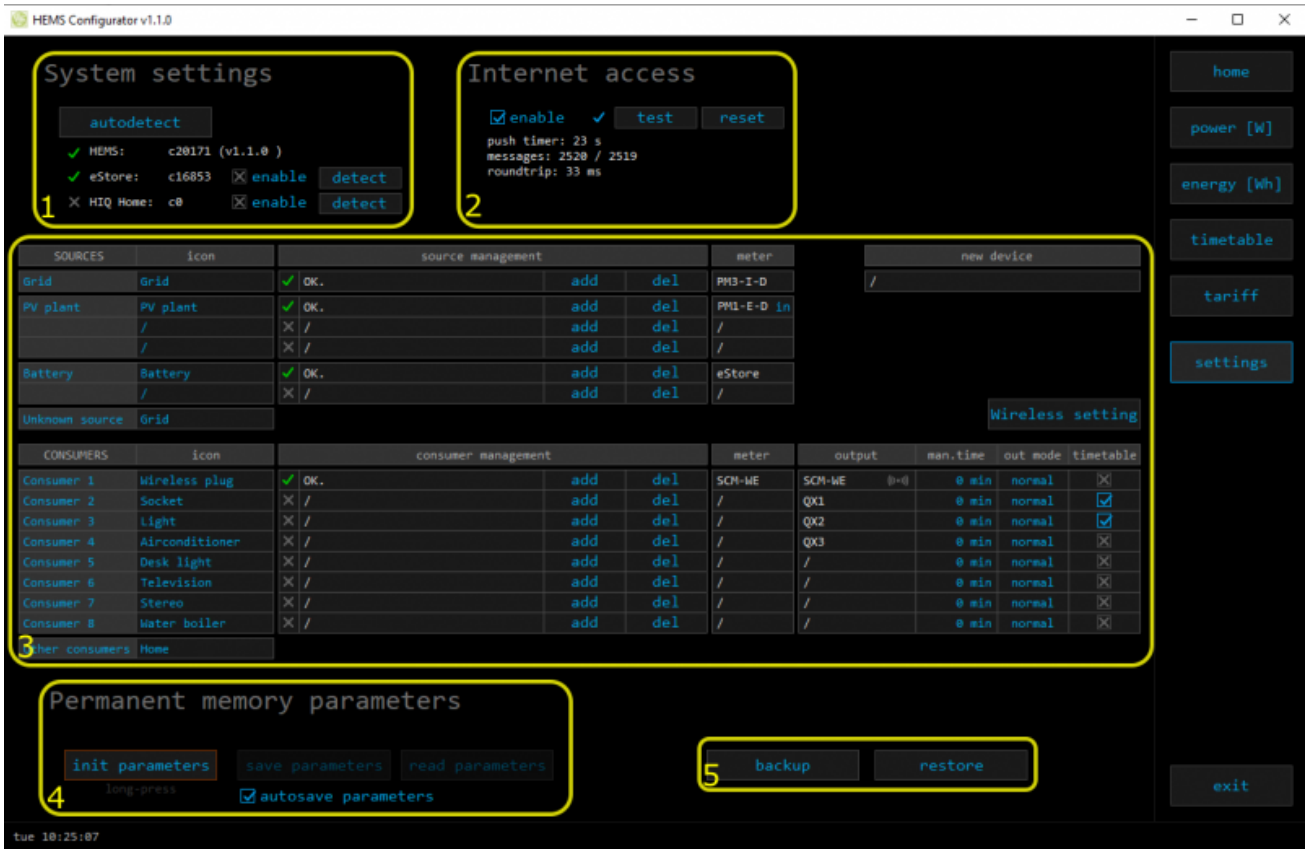
Weekly tariff timetable for grid energy per tariff distribution.



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 mode for wireless module[2]
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