

To run RDC Charger application it is required:

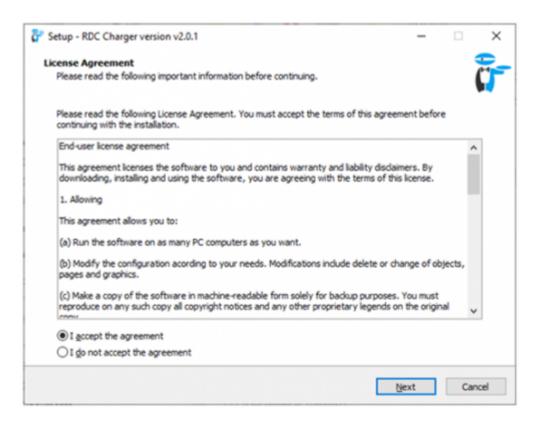
- to establish connection between charger and router by UTP cable
- to connect charger to the power supply
- download and install latest version of application for RDC Charger \*

# Once RDC Charger is configured, it does not require further connection to internet or configurator for normal operation !

\*Latest version of RDC Charger (EVSE) can be found under Downloads map.

## Installation

- run rdc\_charger .exe file from Downloads
- · select default or desired folder

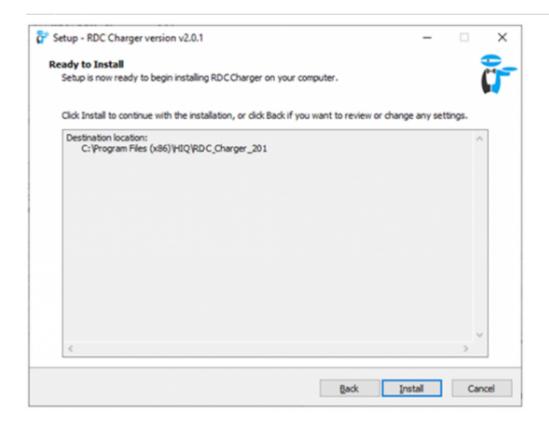


2° Setup - RDC Charger version v2.0.1	-		×
Select Destination Location Where should RDX Charger be installed?			Ċ_
Setup will install RDC Charger into the following folder.			
To continue, click Next. If you would like to select a different folder, click Browse.			
C:\Program Files (x86)\HIQ\RDC_Charger_201	В	rowse	
		-	
At least 12,9 MB of free disk space is required.			
Back Ne	ext	Car	ncel

- select charger serial number (SN), visible on sticker \*
- run install

\*if does not appear a window with SN or it is not listed it means that application at this moment did not recognize charger. Continue with installation and select SN on application later.

Setup - RDC Charger version v2.0.1	-		×
Select RDC Charger		4	2
Which charger should be selected when the program is installed?			
Choose one, other chargers can be selected later.			
○ 30566		^	
○ 30566			
○ 31059			
○ 31059			
○ 31490			
○ 31490			
40000			
○ 40000			
O 40001			
O 40001			
O 40105			
O 40105			
		~	
<u>B</u> ack	Next	Cano	cel

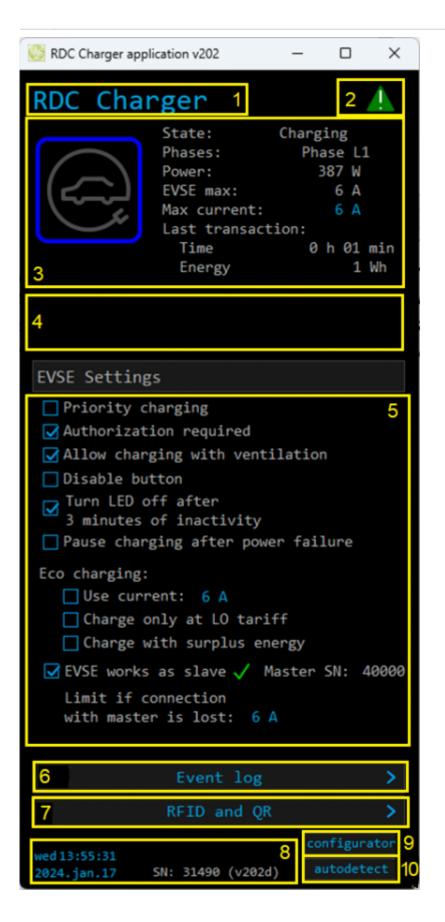


#### Installation is successful!

Setup - RDC Charger version v2.0.1	×
	Completing the RDC Charger Setup Setup has finished installing RDC Charger on your computer. The application may be launched by selecting the installed shortcuts. Click Finish to exit Setup. ☑ Start RDC Charger
	Enish

## **EVSE overview**





RDX Charger v2.0.1								-	
vent log									6
begin date	begin e	end	duration [h:min]	energy [kWh]	card nr./ type	Note			
✓ 2022.dec.22		0:00	000:21	003.7	not locked		charging		
✓ 2022.dec.21		6:32	006:49	026.8	not locked not locked		charging		
✓ 2022.dec.20 ✓ 2022.dec.19		6:39 8:21	008:38 002:09	032.2 020.6	not locked		charging charging		
✓ 2022.dec.18		9:36	002:02	022.2	not locked		charging		
2022.dec.18		3:46	004:45	011.6	not locked		charging		
2022.dec.15		3:46	025:10	006.0	not locked		charging		
0000.jan.00		8:80 8:80	003:00 003:00	000.0	88		charging		
✓ 0000.jan.00 ✓ 0000.jan.00		0;00 0;00	000;00	000.0	60 60		charging charging		
5N: 48888 (v1.2.7b)									
581: 40000 (VI.2.75)									
RDX Char	ger v2.0.1	_		>	(				
- Herr energy	gerteitti			,					
				_					
REID,	MIFARE	: an	a QR						
card		_							
	card ID		manage	card					
no.	C010 10								
no. 01		-1	add	del					
01		-1	add	del					
01 02		-1 -1	add add	del del					
01		-1 -1	add	del					
01 02 03		-1 -1	add add add	del del del					
01 02 03		-1 -1	add add	del del					
01 02 03 04		-1 -1 58	add add add add	del del del del					
01 02 03 04	- - 1589166	-1 -1 58	add add add add	del del del del					
01 02 03	- - 1589166	-1 -1 58 0	add add add	del del del					
01 02 03 04 05	- - 1589166	-1 -1 58 0 -1	add add add add add	del del del del del					
01 02 03 04	- - 1589166	-1 -1 58 0	add add add add	del del del del					
01 02 03 04 05 06	- - 1589166 - -	-1 -1 58 0 -1 -1	add add add add add add add	del del del del del					
01 02 03 04 05	- - 1589166 - -	-1 -1 58 0 -1	add add add add add	del del del del del					
01 02 03 04 05 06 07	- 1589166 - - -	-1 -1 58 0 -1 -1 -1	add add add add add add add add	del del del del del del					
01 02 03 04 05 06	- 1589166 - - -	-1 -1 58 0 -1 -1	add add add add add add add	del del del del del					
01 02 03 04 05 06 07 08	- 1589166 - - -	-1 -1 58 0 -1 -1 -1	add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07	- 1589166 - - - -	-1 -1 58 0 -1 -1 -1	add add add add add add add add	del del del del del del					
01 02 03 04 05 06 07 08 08 09	- 1589166 - - - -	-1 -1 58 0 -1 -1 -1 -1	add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07 08 08 09		-1 -1 588 0 -1 -1 -1 -1 -1 -1	add add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07 08 09 10		-1 -1 58 0 -1 -1 -1 -1	add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07 08 08 09		-1 -1 588 0 -1 -1 -1 -1 -1 -1	add add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07 08 09 10		-1 -1 588 0 -1 -1 -1 -1 -1 -1	add add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07 08 09 10 Time		-1 58 0 -1 -1 -1 -1 -1 -1 -1 -1	add add add add add add add add add add	del del del del del del del					
01 02 03 04 05 06 07 08 09 10 Time		-1 58 0 -1 -1 -1 -1 -1 -1 -1 -1	add add add add add add add add add add	del del del del del del del					

### 1. EVSE Name

Name of EVSE - default is RDC Charger.

2. DLM sign	
-------------	--

××	Yellow status when DLM is enabled and active. Green status when enabled and not active. None if DLM is not set.		
3. Data from ongoing charging session			

b. Data nom ongoing tharging session				
EV charging icon with LED light	Different LED light colour is presenting charger state, while icon acts as a button. Short press toggle enable/pause charging, long press for priority charging and error reset.			
State	EVSE status: Communication error; Unknown; Available; EV not connected; Starting; Charging; EV paused; EVSE paused; EV not connected; Charging ended; Charging fault; Unpausing; Unavailable; No EVSE response; Locked, no EV; Stopping; Locked, EV connected; Paused by DLM;			
<b>Phases</b> - number of used phases while charging	3 phases, Phase L1, Phase L2, Phase L3, Unknown phase, 2 phases.			
Power	Charging power of EV.			
EVSE max	Charging current by phase.			
Max current	Allowed max charging current.			

Last session	Time - duration of charging session, Energy - consumed				
	energy of charging session.				
4. Error message(s)					
Undervoltage; Charge with ventil	oltage; CP negative voltage; RCD sensor trip; Overvoltage; ation; PS reading error (EVSE); Current is higher than allowed; temperature is too high; PS reading error (grid) see table below.				
5. EVSE settings					
Priority charging	Utilize all available power to charge as fast as possible ignoring economy charging.				
Locked	Disable unauthorized use of EVSE, authorization is possible with RFID tags or by cloud application.				
Allow charging with ventilation	Allow/deny charging if EV requests ventilation.				
Disable button	Disable functionality of button on housing.				
Turn LED off after 3 minutes of inactivity	LED light is turned off after 3 minutes.				
Eco charging	Use current: set desired current for charging. Charge only at LO tarriff: charging possible at low tariff only. Note: LO tarriff must be set. Charge with surplus energy: dynamically charge EV if there is surplus energy				
EVSE works as slave	EVSE is a slave to master (Modbus TCP communication) EVSE with its serial number-SN. Green tick if communication is OK, red X for lost communication.				
Limit if connection with master is lost	In case of lost communication, use set charging current.				
6. Event log					
Shows last 10 charging session.					
begin & end time	Begin date, hour and end of charging session.				
duration	Duration of charging session [h:min].				
energy	Consumed energy in session.				
card nr./type	Card ID used for charging session. If note "not locked" card ID is not used/needed.				
note	Status message about charging session (normal or some error).				
7. RFID, MIFARE and QR	7. RFID, MIFARE and QR				
	QR code, for managing authorized access to EVSE.				
Card no. & card ID	Supported up to 10 RFID/MIFARE/QR tags/cards.				
Manage card	Press Add for new card or delete existing one.				
Time	60 seconds time frame for adding new card.				
8. Time & date and SW versio					
Time and date with software vers	ion release.				
9. configurator					
Runs Configurator					
10. autodetect					
Click to find EVSE in local network	<				

# **Error table**

RDC Charger recovers error automatically. To delete error by yourself long press button on charger housing or on application. **Charging is stopped while error is active. If red light still flashes, please read table bellow.** 

Error	Possible causes	Possible solution
CP positive voltage CP negative voltage	Measured voltage on CP pin is out of range.	Check your charging cable and plug. Reconnect your EV. If error still appears, please contact your EVSE service.
RCD sensor trip	DC current leak detected.	Please try to connect another EV, if error still appears, please contact your EVSE service. Otherwise, please contact an authorized car service department.
RCD sensor malfunction	RCD sensor is damaged or not connected.	Please contact your EVSE service.
Undervoltage Overvoltage	Supply voltage is out of range.	Please contact your EVSE installer.
Charge with ventilation	EV requests charging with ventilation and "Charging with ventilation" is not enabled on configurator	Enable "Allow charging with ventilation" if charged EV is located in ventilated area.
PS reading error	No communication with internal power sensor.	Please contact your EVSE service.
Current is higher than allowed	Vehicle draws more power than allowed.	Please try to charge another EV, if error still appears, please contact your EVSE service. Otherwise, please contact an authorized car service department.
Internal temperature is too high	Temperature inside of charger is too high.	Make sure charger is not exposed to direct sunlight. Please contact your EVSE installer.

# **HEMS Configurator**

### home

Basic system overview.

HEMS Configurator v2.0.0				Temperature -100.0°C	
					home
Grid					power [W]
LO: 0W LO: 0Wh HI: 0Wh D-LO: 0Wh D-LO: 0Wh D-LO: 0Wh					energy [Wh]
A D-HI: BWA	en ;	ewn ;	2		timetable
96wh 1					tariff
	ewh 4	ewh 4			limiter
	X outro	× ₀, ₽ 3			ev fleet
	Robo Charger				IO mux
	ew ewh long-press for analog set		$\times_{\rm ext}^{\rm ext}$	$\times_{\rm exh}^{\rm exh}$	settings
	$\times_{ab}^{au} \Rightarrow \times_{a}$	×			
		enh ;	enh ; · · ·	Buth : 4	
Unknown K P ew ewh 5	Background ew ewh				
					exit

1. Grid		
>	From grid	Tariff (LO, HI, D-LO, D-HI) and power from grid in W
	5	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 % <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
click	Toggle	Click in frame toggles managed consumers output
5. Unknown source		
>	Sourced	Power in W and energy in Wh from unknown source
. Accur	nulate also all di	fferences caused by power sensor inaccuracy
6. Other consumers	5	
>	Consumed	Consumed power in W and energy in Wh by other (not measured) consumers
7. Page navigation		

ho	ome	Home screen
рс	ower [W]	Power screen
en	nergy [Wh]	Energy screen
tir	netable	Timetable screen
ta	riff	Tariff screen
dlı	m	Limiterscreen
ev	/ fleet	EV fleet screen
IO	mux	IO mux screen
se	ettings	Settings screen
8. Exit		
ex	cit	Close appliction

 $^{\scriptscriptstyle 1}$  only for eStore

### power

Overview of current power distribution by source / consumer.

		GridLO	GridHI	GridD-LO	GridD-HI	PV		eStore		Unknown	energy [W
		8								9	
						TOTAL:	T SUM: 2342	STORAGE SU	M: 0	1	
id	9					101AL:	2.542	9			
10		0	37	0		9		6		0	
	37	0						0		0	
tore	9	8	8	8	8	8				9	
ckground	9	0									
	9	0								9	
	400	0						8		0	
	9	0								9	
	9	0								9	
/SE c101											
	1905	0						0		0	
skra	2862	8		9	0	9		0		0 0	4
										3	
	dec 13 H	EMS SN: 40000	(v1.2.7b)								

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 (Green outline)

Power meter is not part of internal circuit

HEMS Configura	tor v2.0.1									- 0	] >
					GridD-HI	PV 1			Unknown		
						0				0	
						PLAJ TOTAL:	T SUM: 2342	STORAGE SUP			
irid	2 0						2342	 -		timeta	
						9		 0		9	
Store	9	8	8	8		9				e limit	ten
ackground	9	8	8	0	e	9					
obo Charger	9	8	0	0	6	9				ev +1	
	400				6	0				9	
					0	0				a IO m	
					8	0				9	
	1905 2068	8				9 9		0		9	
	2068										

#### **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 Configurate	r v2.0.1									- 0
										home
										power [W]
	Г	Geiden	Geidut	Secida-LA	seidb.ut	PV		eStore	Unknown	
		327434				2918		3380		
						PLANT SUM: TOTAL: 76525		STORAGE SUM: 3380	0	
Grid	4103					3925	,	180	1 0	
PV	19001							563	0	
estore	3808								0	
sackground	9							2514		
Robo Charger	486696								9	
	26144 669								0 0	
	105933								0	
	8914 75655 <b>2</b>			e 8	0 0	0 0		44 0	9 0	
	.dec.13 HE	MS SN: 40000 (	(v1.2.7b)						e <b>t all</b> g-press <b>G</b>	
1 500	rcod o	norav								
1. Sou										
Source	-	-		псе						
Sums p										
Total of										
2. Con										
Energy		cons	umer							
<b>D</b>										
		stribut								
<b>3. Ene</b> Partial										

### 4. Submeter (Green outline)

Power meter is not part of internal circuit

### 5. Energy since

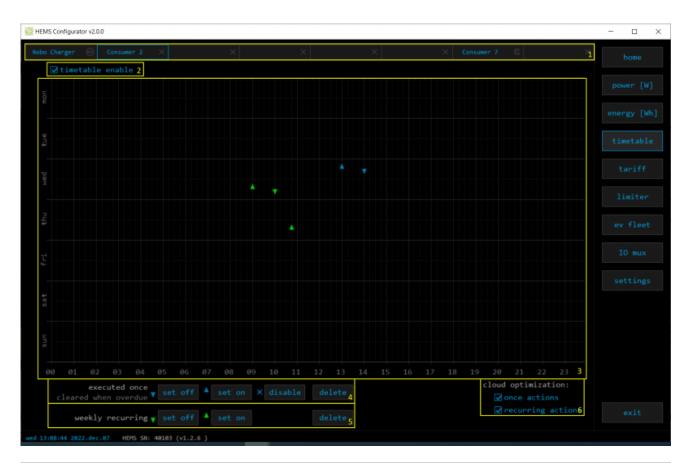
Date and time since energy is recorded

#### 6. Reset all

Long-press to reset all energy counters

## 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)

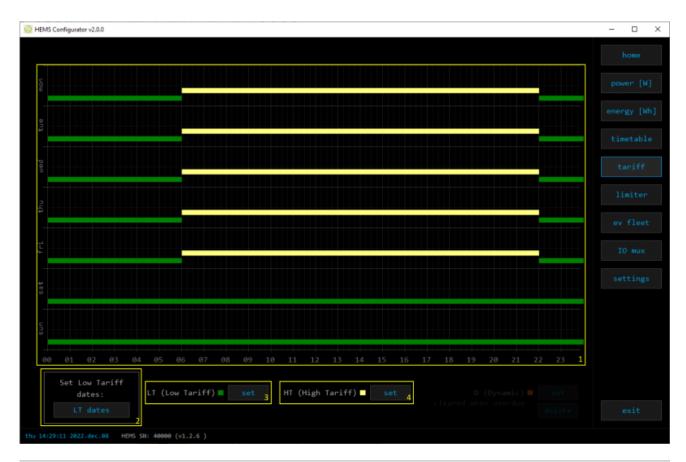
Actions are executed each week.

#### 6. 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 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

C	HEMS - Set	LO tariff date	s —		×
	Set	LO ta	riff da	ates	
		LO tari	ff date		
	day	month	day	month	
			88	8	
	- 82		8	88	
	8	88	8	88	
	53	88	8	88	
		85	8	88	
	88	85	8	8	
	25	8	8	8	
	85	8	8	8	
	38	88	8	8	
			8	8	
	25	88	88	8	
	26	88	80	80 <u>1</u>	
[	🔲 Use ea	ister mond	ays (Roma	n Catholi <mark>2</mark>	)
		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

# **Dynamic Load Management**

### Overview and configuration of DLM

HEMS Configurator		d Man	200	ont											- D
bynanit	C LUa	u nan	agen	enc											
						Grid cur	rent lim	it [A]							
								L3							
								20							
					nt limit:										
	X Enab	le cluster	slave co	nnection											
									X						
	🔀 Enab	le limiting	g from cl												
									X						
		it if conne	section wi	en cloud	15 10st:		3200	0260	1						
			Power				rrent [A]			ltage [V					ev fleet
		Total	L1	L2	L3	L1	L2	L3	L1	L2	L3	Phase order	1	Priority	
		108			32	0,4	0,4	1,8			231	L1 L2 L3			
	*//	18			18			0,5			231	L)			
	$\times$														
Charger		0			0	0,0	0,0	0,0			231	11/13/12		Limit first	
	0	0			0	0,0	0,0	0,0			0	L1 L2 L3		No limiter	
	0.0	0					0,0			230		L2		No limiter	
	02														
	Q ×														
		0					0,0			231		L2		No limiter	
ra	2	120			40	0,4	0,3	1,5			231	11/12/13		No limiter	
		90	50		13	0,4	0,4	1,4			5	6		7	
ckground													-		

### 1. Grid Current limit

1. Grid Current limit						
MAX current limit	Current limit threshold for main grid fuse					
Enable cluster slave connection	Current limit threshold if charger lost connection with master					
Enable limiting from cloud	Current limit threshold if charger lost connection with cloud					
2. Consumer management						
Turn consumers on or off						
3. Power						
Total power and power for each pha	se					
4. Current						
Current for each phase						
5. Voltage						
Voltage for each phase						
6. Phase order						
First set correct phase order for grid power sensor and then set for other power sensors/devices. <b>NOTE:</b> changing grid phase order will NOT apply to phase order of other connected devices!						
7. Status and priority						
××	Yellow status when limiter is enabled and active. Green status when enabled and not active					

# Device priority group: no limiter, limit last (last to be limited), limit second, limit first (first to be limited)

#### 8. Grid frequency

Grid frequency measured on grid power meter sensor

## ev fleet

Overview and configuration of EVSE station. Up to 7 external EVSE supported.

HEMS Configurator v2.	0.1							- 0
RDX Charger	RDX 40106 🔺	A MG	RDX 31490 🔺	EVSE INCH	RDX 40001	нр 🛦	Iskra	home
$\bigcirc$								
V not connected					EV not connected			
3 phases wer: 0 W					3 phases Power: 0 W			
GE max: 0 A c current: 17 A st session:					EVSE max: 0 A Max current: 20 A Last session:			
ime 435 h 22 min hergy 51785 Wh					Time 0 h 00 min Energy 0 Wh			
Settings					Settings			
Priority charg.					Priority charg.			
Locked Allow charging					Locked Allow charging			
with ventilation Disable button					<pre>with ventilation Disable button</pre>			
Turn LED off after 3 minutes of inactivity					Turn LED off after 3 minutes of inactivity			
nomy charging: Current: 6 A					Economy charging:			
Charge only at LO tariff					Charge only at LO tariff			
Charge with surplus energy					Charge with surplus energy			
ter SN: 0					2 Slave SN: 40001 ✓			
nt log RFID_QR								
EVSE works as slave								
it if connection h master lost: 6 A <sup>1</sup>								
Lost: 6 A*	1.12 HEMS SN: 400	00 (v1.2.7b)						

#### 1. EVSE - RDX Charger

#### **RDX** charger

#### 2. Additional EVSE (charging station) linked to RDX charger

EVSE supports up to 7 charging stations. Settings are as for RDX Charger.

Slave SN: Serial number of slave charger

Green tick  $\rightarrow$  control of slave by master is allowed,

Red X  $\rightarrow$  control of slave by master is disabled.

### io mux

Overview and configuration of input/output ports IO mux

IO	mu	х									
	1	Wireless	relay WR-1 out	out function				Slave	device IP address		
	act.	status	output fu	nction	out mode			Device	IP address	SN	
WR 1	×				normal			Grid		0	
WR 2					normal			PV		0	
WR 3	🗹 ок				inverted					Θ	
WR 4					normal					0	
WR 5					normal			eStore		Θ	timetabl
WR 6					normal					0	
WR 7					normal			Robo Charger		0	
WR 8	🗹 ок		HP 1 channel 1		inverted <sup>1</sup>			EVSE c40106		40106	
	IEMS LIN	nut and i	output function	Julnad conn	ection)			DHW		0	
					out mode			EVSE c31490		31490	
								EVSE INCH		Θ	
					normal			EVSE c101		0	
					normal			HP		e 4	ev flee
					normal			Iskra	0, 0, 0, 0	0	
					normal						
					normal						
					normal						
					normal						
					normal						
					and and a second						
					2						
1.72	loggre	consume	Heat pump :	supported op	eration mode						
						Increased +	Enter number				
		Off	Reduced	Normal	Increased	add. heater	of channels				
Heat p	ump 1						2				
Heat p	ump 2						1.000				
Heat p	ump 3						3				
Heat p	ump 4						1 3				

#### 1. Wireless relay WR-1 output function

In the left column are WR modules WR-1 (max 8) with corresponding status (active + communication status). To each WR could be assigned HEMS function (e.g. digital, linker reset, router reset, heat pump channel etc) with output mode (normal or inverted).

#### 2. HEMS input and output function (wired connection) - not for EVSE available

In the left column are MC controller ports to which could be assigned MC-230 functions (digital, linker reset, router reset, etc) with output mode (normal or inverted).

Default settings are for e.g.  $QX0 \rightarrow digital 1$  while digital 1 is defined for consumer 1 on settings page. Change to define new function role to QX0 port e.g. for linker reset

Enable consumer at input IX0,IX1 or IX2 means that dedicated consumer will be managed (ON/OFF) by input signal on IX0,IX1 or IX2. For example, if thermostat signal is wired to IXO port and "Enable consumer 1" to IX0, while thermostat is active, consumer 1 is active and otherwise.

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

#### 3. Heat pump supported operation mode

To control Heat pump by EVSE, define supported operation(control) mode based on heat pump specification. E.g. SGRHP supports external control by two channels (Off, Normal, Increased and Increased + additional heater) thus select them in table to enable functionality.

Note: Before selecting modes, heat pump must be defined in setting page!

#### 4. Slave device IP address

For device (PV inverter or external EVSE) define its IP address.

# settings

HEMS Configura	ator v201										- 🗆 X
немз ✓ eSto Х ніQ	rre SN: 16853 ⊠ e Home SN:0 ⊠ e					Use th IP ac Subre Defau DNS s	an IP address te following IP ddress: 1 rt mask: 2 ult gateway: 1	address (stat 92.168. 0.16 55.255.255.	tic IP) 6 0 1 8		home power [W] energy [Wh]
	ernal temperature: 29 bus (wired) cycle tim		bus (wireless) cycle time:	6977ms	Modbus (1	CP) cycle	g-press time: 413ms		1		timetable
SOURCES	icon		source management			ter sub		new device			tariff
Grid PV	Grid PV plant /	A ✓ ok   m ✓ ok   × × /	0+0 0+0	add de add de add de	1 РМ1-Е 1 /	-D in	/			8	DLM
eStore	/ Battery /	× ×/ 5 ×/ × ×/		add de add de add de	1 /					<u> </u>	ev fleet
Unknown CONSUMERS	/ icon	X	consumer management			ter sub	output	man.time P	nominal 🕑		IO mux
RDX Charger Nain PS DHM	Electric car Home Water boiler	С х л		add de add de add de	1 /	• • • •	EVSE inter. Digital-2 Digital-3	Omin Omin Omin	8W X		settings
RDX 31490 EVSE INCH RDX 40001 HP Iskra Background	Electric car / Electric car Heat-pump Home Home	С × / С	0×0 4 0×0	add de add de add de add de add de	1 / 1 / 1 / 1 / 1 PM1-E		/ / / HP 1 /	Omin Omin Omin Omin Omin		9	
init lo tue 09:45:52 20	parameters sa ing-press	ave parameters autosave parameter : 40000 (v1275)	read parameters	Scan		ackup	4 / WR bindi res tic firmware	store 12	hen idle		exit 13 autodetect
Wirel		and WR									
1.Turn 2.Withi	a new modu ON target i in 10 secon module(s)	module(s) ds press "Pa	exit								

1. System settings		
eStore	c	eStore serial number (automatically detected or can be entered manually).
	[] enable	When selected EVSE will obtain necessary data (power, voltage) directly from battery storage system, no need to additional 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	Select if system is without main grid power meter. Energy, power and currents are calculated from other power meters.						
Internal temperature	Temperatu	re inside of EVSE						
Modbus (wired) cycle time	Cumulative	reading time of all wired power sensor in ms						
Modbus (wireless) cycle time	Cumulative reading time of all wireless connected power sensor in ms							
Modbus (TCP) cycle time	Cumulative	reading time of all TCP connected devices in ms						
IP address	IP address	of EVSE						
DHCP		DHCP to obtain an IP address automatically $\rightarrow$ save to confirm.						
Static IP	Set static IF	P to EVSE $\rightarrow$ apply and save to confirm.						
Note: If IP settings are failed, r	restart EVSE v	vith jumper between IX1-GND to DHCP						
2. Sources and Consumers	settings tab	le						
SOURCES	Source nam	ne						
icon	Source icor	1						
3. Device status								
Status	Status OK,	Warning, Error, Detected						
4. Device message								
source and consumer	Source or c	onsumer power sensor management						
management	message	Messages related to source or consumer power sensor						
	×	Power sensor is connected via WM-1 module						
5. 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						
6. Device type								
meter	Source or c	onsumer power-sensor type						
configuration	• •	Dower plant connection1						
7. Submeter option	in/ex	Power plant connection <sup>1</sup>						
71 Submeter option	in/ex							
sub	Check if thi circuit. Ene	s power meter or device is not part of internal rgy division for this device is ignored and green color.						
	Check if thi circuit. Ene	s power meter or device is not part of internal rgy division for this device is ignored and						
sub	Check if thi circuit. Ene	s power meter or device is not part of internal rgy division for this device is ignored and						
sub 8. New device	Check if thi circuit. Ene	s power meter or device is not part of internal rgy division for this device is ignored and						
sub 8. New device Detected new power sensor.	Check if thi circuit. Ene outlined in	s power meter or device is not part of internal rgy division for this device is ignored and						

P nominal	Enter power for device in case where power sensor is not assigned to device.						
clock	Enable timetable						
10. Permanent memory par	ameters						
[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						
11. WM / WR settings							
Scan w-less dev.	Press to start scanning for power sensors wirelessly connected via WM-1 module as well as for WR-1 relay. Scanning is active for 5 minutes.						
WM / WR binding	Press to add new WM-1 or/and WR-1 to existing group or to create New group of wireless modules						
12. Backup / Restore to PC							
[backup]	Backup all parameters to PC						
[restore]	Restore all parameters from PC backup <sup>2</sup>						
13. Autodetect							
[autodetect]	Click to find EVSE in local network.						

<sup>1</sup> only for the first power plant

<sup>2</sup> older versions of backup files may be used. Any unsuccessfully backup or restored parameters will be displayed but operation will end successfully if you use **continue**.

# **RDX Charger Update**

RDX Charger application will detect update automatically.



👸 HEMS Configurato	or v201										- 0
System settings							:: 192.168. 0.189 an IP address automatically (DMCP)				home
			Please u								
			RDC Charger	appli	cation						
			press OK to								
										1	ОК
tue 12:10:23 2023	.mar.14 HEMS SN: 4	Hosave pacameters 10105 (v127b)			Callow aut	omat	ic firmuare	updates	when id	P	autodetect



W HEMS Configurator v201	- 0	×
Update required	home	
Rdc Charger firmware version: 128 HEMS configurator version: 127		
RRC Changes and lighting is not up to date		
RDC Charger application is not up to date.		
Go to download page and update RDC Charger application to version 128		
2 Go to download page Remind me later		
tue 12:24:20 2023.mar.14 HEMS SN: 40105 (v127b)	autodetect	J

(c) Robotina d.o.o.

#### Procedure to update RDX Charger application is as follows:

- press OK and **make sure to follow** further instructions on page (1) (2)
- hit the button Go to download page (2) which will open internet browser on download page, download and install
- hit the button Remind me later to postpone update for 5 minutes