Manual to upload the software update MENNEKES ACU (device version v4)



You can download the software update from our website under "Service": https://www.chargeupyourday.com/service/software-updates/



This update is **only** released for ACU v4 (red housing). Please do **not** use this update for ACU v3 (white housing). Operational errors could occur.



Fig. 1: ACU (device version v4)



Fig. 2: ACU (device version v3)



1. Preparation:

To install the update, you need a PC on which you have permission to change the network settings (e.g. IP address). Operation may vary depending on the operating system used (Windows 7 is used in this example).

- Right-click on the Windows icon on the bottom left.
- In the context menu, select "Run".
- ▶ In the window that now appears, enter "ncpa.cpl" and confirm with "OK".

🖃 Run		×
	Type the name of a program, fold resource, and Windows will open	ler, document, or Internet it for you.
<u>O</u> pen:	hepalepl	•
	ОК Са	ancel <u>B</u> rowse



Local Area Connection Men2003.local	📮 Local Area Connection State	us 💽
Realtek PCIe GBE Family Controller	General	
	Connection	
	IPv4 Connectivity:	Internet
	IPv6 Connectivity:	No Internet access
	Media State:	Enabled
	Duration:	00:16:34
	Speed:	100.0 Mbps
	Details Activity — Sent —	— Received
	Bytes: 42,476,0	058 1,801,480,054
	Properties 🛞 Disabl	e Diagnose
		Close

▶ Now open the settings for the Ethernet connection with a double-click.

- Click on "Properties".
- Call up "Internet Protocol Version 4" with a double-click.



- Select "Use the following IP address" and enter the following data:
 - IP address "192.168.0.21"
 - Subnet mask "255.255.255.0"

Networking	Internet Protocol Version 4 (TCP/IPv4) Properties
Connect using: Realtek PCIe GBE Family Controller Configure This connection uses the following items:	General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Otherwise automatically.
Cuerr for Microsoft Networks QoS Packet Scheduler QoS Packet Scheduler QoS Packet Scheduler QoS File and Printer Sharing for Microsoft Networks ✓ Internet Protocol Version 6 (TCP/IPv6) ✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Link-Layer Topology Discovery Mapper I/0 Driver ✓ Link-Layer Topology Discovery Responder	Use the following IP address: IP address: I92 . 168 . 0 . 21 Subnet mask: 255 . 255 . 255 . 0 Default gateway:
Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Obtain DNS server address automatically Ottain DNS server addresses: Preferred DNS server: Alternate DNS server: .
OK Cano	Validate settings upon exit

• Confirm the settings by clicking "OK" and exit the menu.



2. Uploading the software update

To upload the software update, connect the prepared PC to the ACU of the charging station or the eMobility Gateway.

The connection is made by means of a network cable.

For this, **either use the Ethernet port directly on the ACU** (see Fig. 4) or the **Ethernet socket (RJ45)** located in the charging column **to the right of the meters** (see Fig. 3).





Fig. 4: Ethernet port "ETH0" on the ACU v4

Fig. 3: Ethernet socket (RJ45)

Opening the service interface:

- Once you are connected accordingly, open a leading-edge Internet browser (recommendation: Google Chrome or Mozilla Firefox).
- ▶ In the address field, enter "192.168.0.10" and confirm with ENTER.



A page that indicates an insecure connection may now open. In Google Chrome, you can skip this to get to the service interface. To do this, click on "Advanced" followed by "Proceed to xx.xx.xx".



O 🟠 🛈 https://192.168.0	0.10			B
	A			
	Your connection is not	private		
	Attackers might be trying to steal you passwords, messages, or credit cards)	ur information from 192.168.0.50 (for example,). <u>Learn more</u>		
	NET::ERR_CERT_AUTHORITY_INVALID			
	Help improve Safe Browsing by sendin <u>Privacy policy</u>	ig some system information and page content to Google.		
	Hide advanced	Back to safety		
	This server could not prove that it is 1 your computer's operating system. Th attacker intercepting your connection	192.168.0.50; its security certificate is not trusted by his may be caused by a misconfiguration or an h.		
C	Proceed to 192.168.0.50 (unsafe)			
service interface c	of the ACU now opens.			
service interface c Inter the usernam User name:	of the ACU now opens. e and password. "admin"			
service interface c Enter the usernam User name: Password:	of the ACU now opens. e and password. "admin" "admin"			
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SCU administration:

- On the start page of the service interface, navigate to "Setup" on the top right.
- ▶ Then navigate to "SCU Setup" on the top left.
- In the menu "SCU Administration", you will now find a tabular listing of all SCUs connected to the ACU.
- ▶ Now adjust the configuration of all SCUs via the "Setup" menu.

SCU - Administration

Id:	Name:	Conn:	Status:	Error:	Max. Curr.:	LB-Curr.:	LB-Forecast:	Meter-Count:	Setup:
203	203	2	Idle	A:- B:-	32A			3	Setup
249	249	1	Idle	A:- B:-	32A			14	Setup
		total:	free:	2/2	64A				
	Search by I	DS	earch SCU			Loa	d Balancing		Refresh
Softv	vare updat	e							

SCU setup:

- ▶ In all SCU configurations, "SCU Meter Enable" must be disabled (no tick).
- Click on "Apply" to save the configuration.
- ▶ Follow these steps for each connected SCU.

Settings	Test		
Id:	249	Name:	249
Serial:	3755313334341508000e00	Max charge current:	32.0
Status:	Idle	Fuse(Max Current):	32.0
Meter address:	0901454d4800008414d7	SCU Meter Type:	EMH E-MOC ~
Meter type:	EMH E-MOC	SCU Meter Enable:	
Meter reading:	14.1	OCPP ConnID:	1 ~
Hardware-Ver.:	0	SMSTel:	
Firmware-Ver.:	0-1072	CPId:	
Error code A:	-	Reader Typ:	Elatec Multi ISO ~
Error code B:	-	Local Auth UID:	0x0000000
Power Path:	None	SCU Flow:	Standard ~
CP State:	A	Autoselect Energy Path:	Combined Path(default) ~
PP State:	Open	SCU Panel:	LCD Panel ~
Contactor	Open	Language:	German(de) V
State: Meter Public Key	/:	Legacy UID:	
a8b1 7439	8154 eda3 ea0a e3dc	Emergency Charge:	
5438 ff03 Obaf 6efb	501c afe4 6e33 f33f ed2c dc9e 438d c8a7	Scu Unavailable:	Charged Energy and Count-Up Timer, y
7f27 c469	4ca5 8aad 01b5 1d4a	Connector Plug-in	
		Timeout:	<u> </u>
	Delete SCU	Refresh	Apply
	Delete SCU	Refresh	Apply



Once the meter has been disabled for all SCUs as described above, a software update can be started.

- To do this, enter the following address in the address field of the browser:
 - https://192.168.0.10/admin/admin_local_acu_upgrade

Datei:	Choose File	No file chosen
URL:		

- Select the previously downloaded file with "Choose File".
- Start the update by clicking on "starten".

The update can sometimes take up to 30 minutes for two taught SCUs as both the ACU and the taught SCU are updated to the new software version.

Reactivate meters:

Once the software update has been completed, the meters of the SCU must be reactivated.

- Open the service interface of the ACU as described on page 6 and navigate to "SCU Administration"> "SCU Setup".
- ▶ Now reactivate the meter under "SCU Meter Enable" (set tick).
- Click on "Apply" to save the configuration.
- ▶ Follow these steps for each connected SCU.