Symphon·E

FEMS App AC Charging Station Read Access

Version:2024.11.1

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1. Introduction

Dear customer,

Thank you for choosing the "FEMS App AC Charging Station Read Access". You are welcome to send us your suggestions so that we can further improve the quality of our products.

2. Prerequisites

To use the FEMS App AC Charging Station Read Access, you need an AC charging station supported by EMS.

Models from the following manufacturers are currently supported:

Charging Station Providers	Compatible Models	FEMS App Instructions
MENNEKES Download platform	• AMTRON Charge Control • AMTRON Professional	• AMTRON Charge Control • AMTRON Professional
go-e Download platform	• go-e Charger Gemini flex	• go-e Charger Gemini flex

3. Installing the app

When you ordered the "FEMS App AC Charging Station Read Access", you received a 16-digit license key. You can use this license key to redeem the app independently in the EMS App Center.

You can find instructions on how to proceed at this link: here.

4. FEMS App AC charging station/DC charging station read-only

4.1. Why should your wallbox be integrated in EMS?

EMS, the open-source-based energy management system from Heckert Solar, gives you the freedom to design your Energy Journey. Together with manufacturers of wallboxes, heat pumps, heating elements, etc., we are continuously working on further integrations for the FEMS App AC Charging Station Read Access.

Compatible wallboxes offer various manufacturer-side advantages that support you on your Energy Journey. New partnerships with other manufacturers are constantly being forged.

Heckert Solar accompanies you step by step on your Energy Journey towards 100% self-sufficiency: For example, owners of a photovoltaic system can use the combination of Heckert Solar electrical energy storage and electric vehicle to charge the solar power they produce themselves instead of feeding it into the grid at low cost.

Use the EMS AC charging station read-only app or EMS DC charging station read-only app to monitor the functions of your wallbox.

4.2. Advantages of the FEMS App AC Charging Station Read Access

- *Everything at a glance*

  Monitor the functions of your wallbox via your EMS Online Monitoring.

- *One-time purchase, no recurring costs*

  After the one-off purchase, there are no further costs for the app — lifetime updates included.

- *OpenEMS Community*

  The software is being developed further in cooperation with universities, institutes and other manufacturers of energy management systems in the global OpenEMS community.

- *Energy Journey*

  We are already thinking about the next steps of your personal Energy Journey. That’s why we are working on integrating new wallboxes and charging stations, among other things.

4.3. Visualization and configuration in Online Monitoring

After installing the FEMS App AC charging station read-only or FEMS App DC charging station read-only, you will see the following widget in your live monitoring:

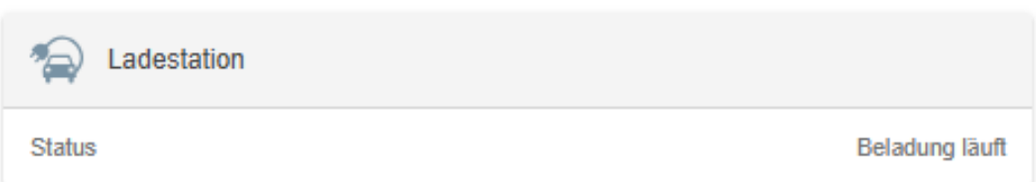

Figure 1. Flat widget

The following information is displayed in the widget:

- **Status**: Shows the current status of the wallbox
  - **Charging in progress**: The electric vehicle is plugged in and charging is in progress
  - **Ready for charging**: The electric vehicle is plugged in and waiting for the charging process to start
  - **Not ready for charging**: The cable is not plugged in correctly
  - **Cable not connected**: Electric vehicle is not connected to the wallbox
- **Energy since start of charging**: Shows the energy charged since the start of charging in [kWh].

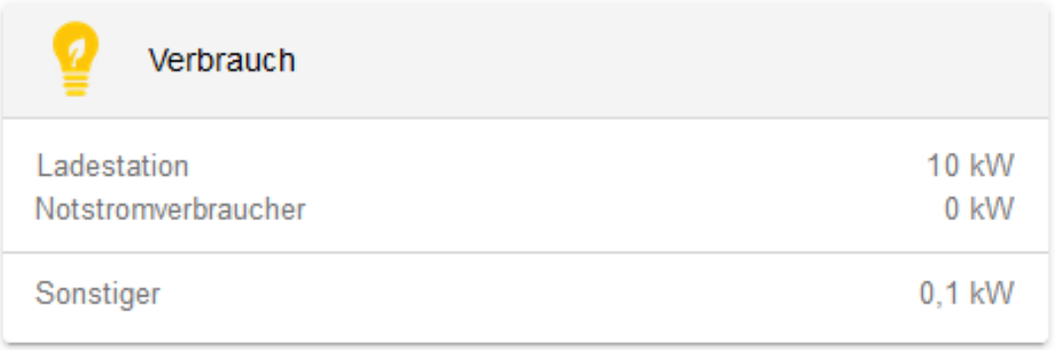

Figure 2. Consumption widget

Click on the widget to open the detailed view of the EMS app:

Figure 3. Detail widget

Consumption

You can see the current charging power - together with other loads/consumers - in the separate Consumption widget in Online Monitoring.

Figure 4. Consumption widget

Historic view

The historical consumption of the charging station is found in the consumption widget.

Figure 5. Historic representation

4.4. FAQ & Troubleshooting

1. *With which storage systems from Heckert Solar is the "EMS App AC/DC charging station" compatible?*

   The app is currently compatible with the Heckert Solar-Home series and the Heckert Solar-Industrial series.

2. *Which wallboxes & charging stations are integrated into Heckert Solar energy management system?*

   Below you will find a list of all compatible wallboxes and charging stations:

Partner	Wallbox (model type)
MENNEKES GmbH	MENNEKES AMTRON Charge Control
	MENNEKES AMTRON Professional
	MENNEKES 4YOU 510
	MENNEKES 4YOU 560
go-e GmbH	go-e Charger Gemini flex

Please note that we do not provide technical support for the FEMS App AC Charging Station Read Access for the compatible wallboxes.

3. *Is a permanent internet connection required?*

   The charging station must be connected to the Heckert Solar energy management system in order to be able to display all the required values in Online Monitoring.

This is usually automatic, as your EMS and your charging station are set up in the same customer network during installation.

If the EMS does not have an internet connection, the values can only be viewed and specified via the local monitoring.

If there is no connection, the following text is displayed in the monitoring:

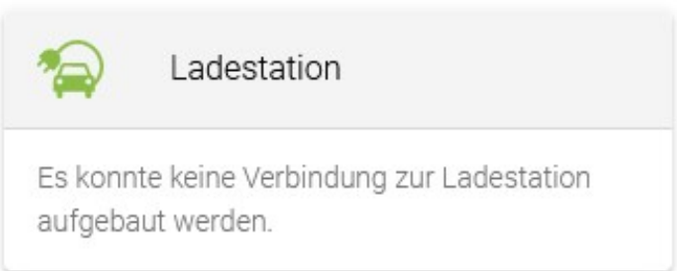

Figure 6. Charging station is not connected

4.5. Further information

- We develop the algorithms and connections used in the "FEMS App AC Charging Station Read Access" in cooperation with universities, institutes and other manufacturers of energy management systems in the global OpenEMS community.
  - For more information about OpenEMS, visit www.openems.io
  - If you're interested, feel free to join the English-language discussion at OpenEMS Community
- From the beginning of 2024, all wallboxes & charging stations in the private sector must be controllable by the grid operator in accordance with § 14a of the German Energy Industry Act. Depending on the manufacturer, your wallbox can be dimmed to the required 4.2 kW charging power and/or switched off for the required period of time. For further information, please contact your wallbox manufacturer.
  - MENNEKES

Currently, the proper dimming of wallboxes & charging stations is not done via the Heckert Solar energy management, but via the solution paths of the wallbox manufacturers.

5. Contact us

For support, please contact:

Symphon-E Service

Service phone: +49 (0) 371 45 85 68 - 100

E-mail service: symphon-e@heckert-solar.com

6. Directories

6.1. List of illustrations