

FEMS App Threshold Control

Version:2025.4.1

Table of Contents

1. Introduction **2**

2. Installing the app **2**

3. FEMS App Threshold Control **2**

4. Contact us **6**

5. Directories **7**

5.1. List of illustrations 7

1. Introduction

Dear customer,

Thank you for choosing the "FEMS App Threshold Control". You are welcome to send us your suggestions so that we can further improve the quality of our products.

2. Installing the app

When you ordered the "FEMS App Threshold Control", 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.

3. FEMS App Threshold Control

It often makes sense to control a relay output depending on various parameters such as power values. This is made possible with the "FEMS App Threshold Control". When you purchase the app, a control algorithm is integrated for switching a relay output depending on values that you can set yourself.

Additional apps must be purchased for further relay controls.

As soon as the app has been activated on your system, you will see the following widget in your monitoring:

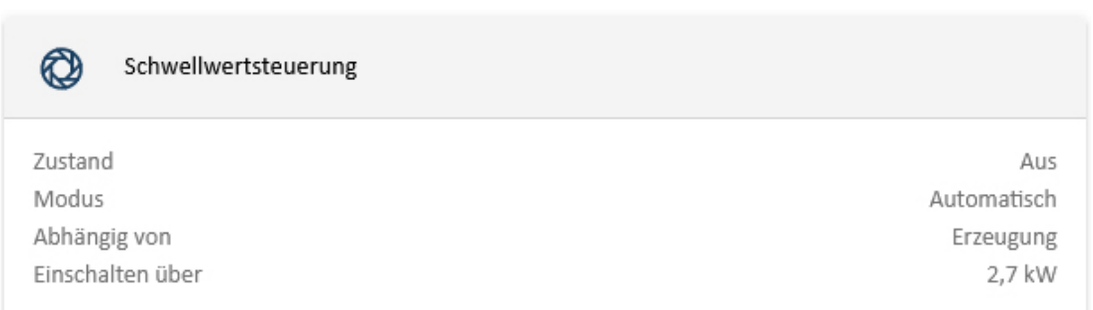


Image 1. Widget — Overview

In the example above, Threshold Value Control controls the pool heating.

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

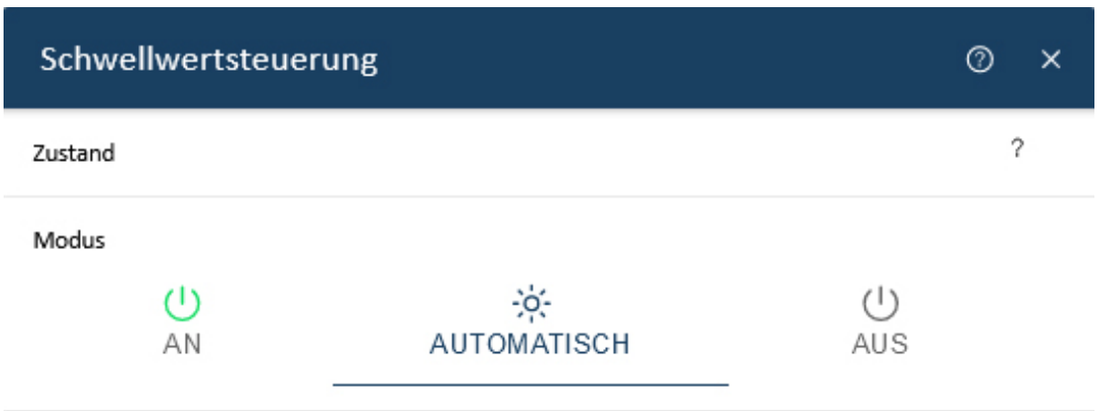


Image 2. Widget — Detailed view

Here you have the option of switching between three operating modes:

- **On**

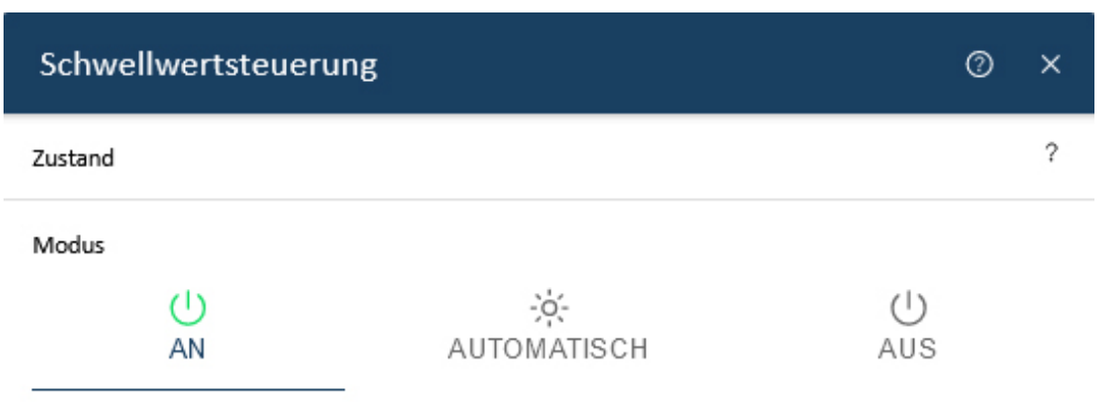


Image 3. Operating mode "On"

The "On" mode corresponds to manual activation of the switched consumer load. In the example above, the pool heating would be switched on permanently.

- **Automatic**

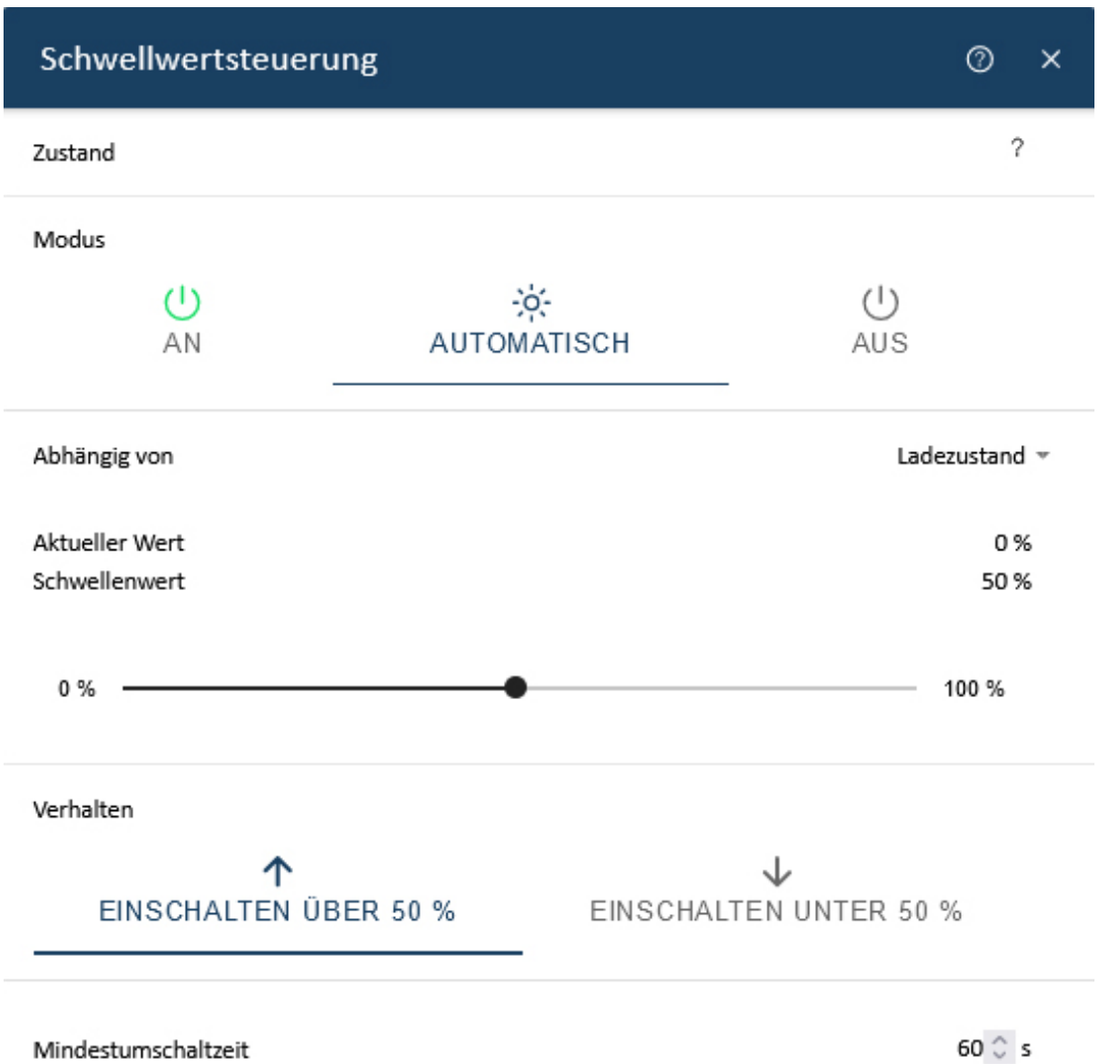


Image 4. "Automatic" operating mode

In "Automatic" mode, Threshold value control can be mapped depending on various variables:

- Grid feed-in
- Mains supply
- State of Charge (of the electrical energy storage)
- Production (e. g. through PV system)

The **Switched load** comes into play when feeding into the grid or drawing from the grid. The power of the connected device must be entered here to ensure faultless behavior.

The **threshold value** determines the value (in watts) at which the relay is switched.

You can use **Behavior** to set whether the relay is switched above or below the threshold value.

The **Minimum switching time** defines the period from the last switching operation in which the relay is not switched again.

- **Off**

The "Off" mode corresponds to manual deactivation of the switched consumer load. In the example above, the pool heating would be switched off permanently.

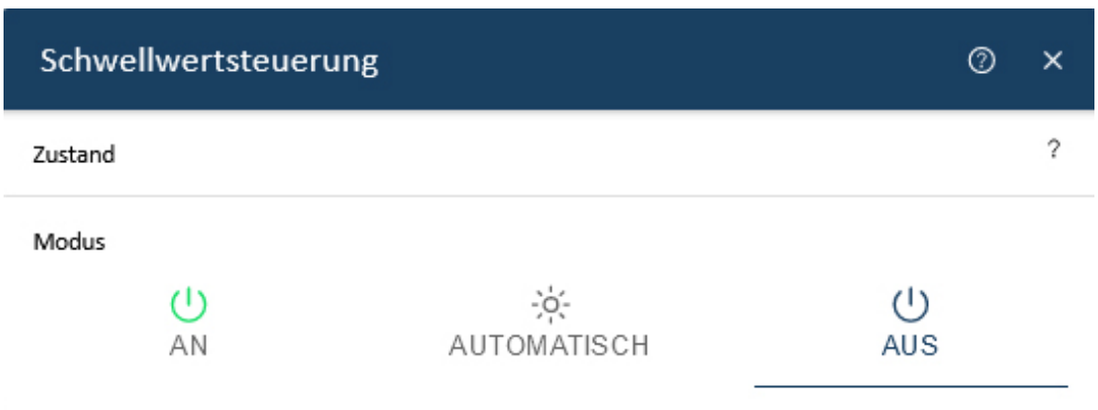


Image 5. Operating mode "Off"

Use the associated widget in the historical view to inspect the behavior of the pool heating over time.

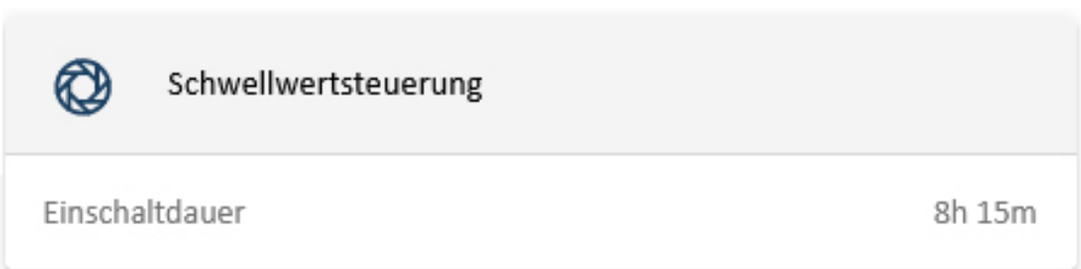


Image 6. Widget — Historic view 1

The widget shows the switch-on duration of the relay depending on the selected time period.

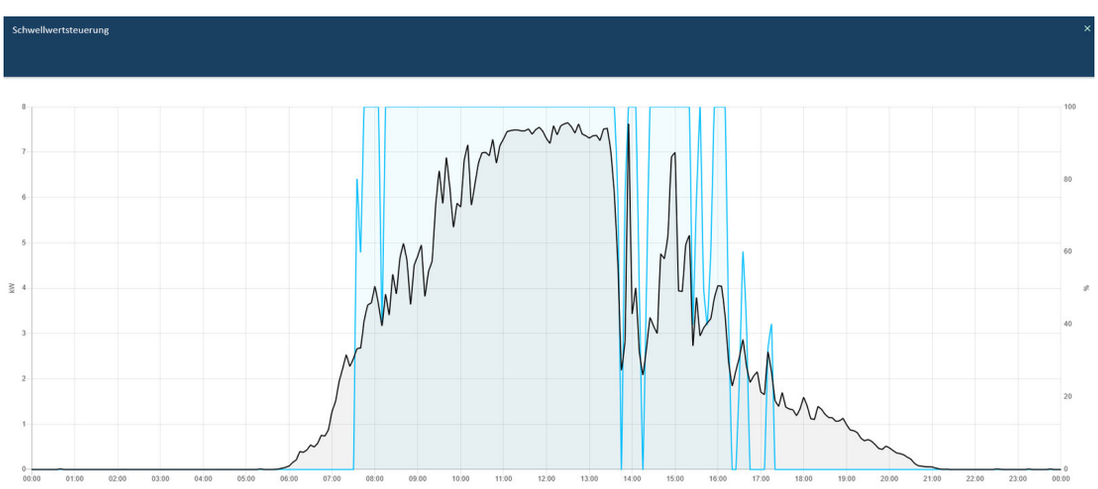


Image 7. Widget — Historic view 2

The behavior of the pool heater over time is displayed here in a diagram.

4. 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

5. Directories

5.1. List of illustrations

Image 1. Widget — Overview
Image 2. Widget — Detailed view
Image 3. Operating mode "On"
Image 4. "Automatic" operating mode
Image 5. Operating mode "Off"
Image 6. Widget — Historic view 1
Image 7. Widget — Historic view 2