



FEMS App Production and Consumption Meter

Version:2023.4.1

Table of Contents

1. Introduction	2
2. Prerequisites	2
3. Installing the app	2
4. FEMS App Production and Consumption Meter	3
4.1. Use as an electricity generation meter	3
4.2. Use as a consumption meter	4
5. Contact	7
6. Directories	8
6.1. List of illustrations	8

1. Introduction

1. Introduction

Dear customer,

Thank you for choosing the "FEMS App Production and Consumption Meter". 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 Production and Consumption Meter", a FEMS-supported meter is required.

Devices from the following manufacturers are currently supported:

- Carlo Gavazzi
 - [EM330](#)
 - [EM340](#)
- Eastron
 - [SDM630 MODBUS-MID V2](#)
- Janitza
 - <https://www.janitza.com/de-de/produkte/umg-96-rm-e> [Network analyzer UMG 96RM-E]
 - <https://www.janitza.com/de-de/produkte/umg-604-pro> [Network analyzer UMG 604-PRO]
 - <https://www.janitza.com/de-de/news/netzqualitaetsanalysator-umg-511-klasse-a-konformitaet-zertifiziert-gemaess-iec-61000-4-30> [Power quality analyzer UMG 511]
 - <https://www.janitza.com/de-de/produkte/umg-512-pro> [Power quality analyzer UMG 512-PRO]
- KDK
 - [2PU CT](#)
- SOCOMEC
 - [COUNTIS E14](#)
 - [COUNTIS E23](#)
 - [COUNTIS E24](#)
 - [COUNTIS E44](#)
 - [DIRIS A-10](#)
 - [DIRIS A-14](#)
 - <https://www.socomec.de/de/reference/48290000> [DIRIS B-30]

3. Installing the app

When you ordered the "FEMS App Production and Consumption Meter", you received a 16-digit license key. You can use this license key to redeem the app independently in the FEMS App Center.

Find instructions on how to proceed [here](#).

4. FEMS App Production and Consumption Meter

The integration of electrical generators, consumer loads, PV inverters and the grid connection meter via an additional meter allows those components to be integrated into energy management and Online Monitoring.

You can use the "FEMS App Production and Consumption Meter" to integrate a meter as a production and consumption meter.

As soon as the app has been activated on your system, you will see different widgets in your monitoring depending on how the meter is used:

4.1. Use as an electricity generation meter

If the meter was integrated to record an AC generator (e. g. PV inverter), you will see the following widget:

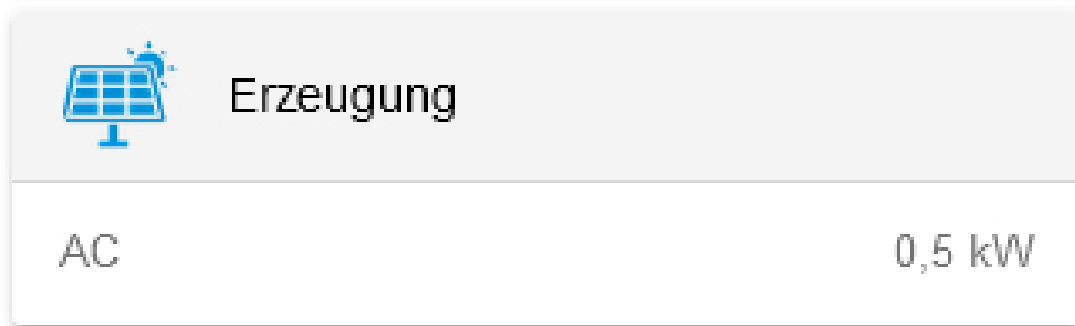


Figure 1. Widget

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

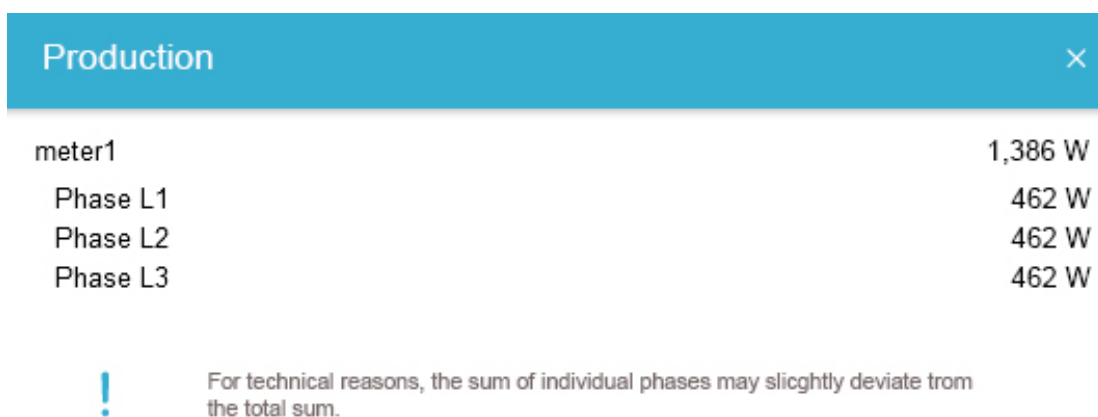


Figure 2. Detailed view

The power per phase is also displayed here.



The sum of the individual phases may differ slightly from the total sum for technical reasons.

4.2. Use as a consumption meter

You can view the generation over time via the "History" tab in Online Monitoring:

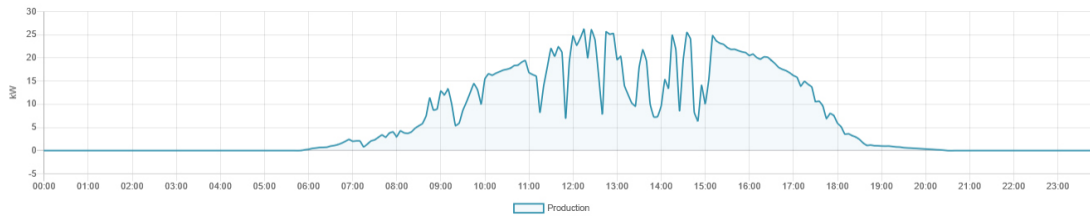


Figure 3. History

You can use the button at the top left to activate the view of generation per phase:

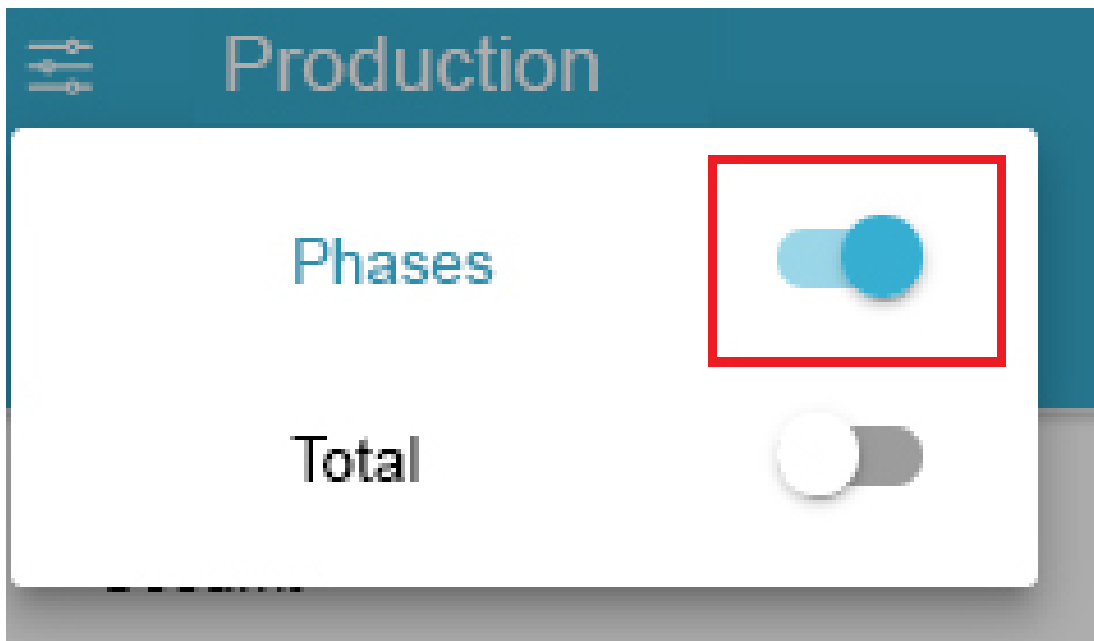


Figure 4. Activation of the view for generation per phase

The generator is then displayed over time per phase

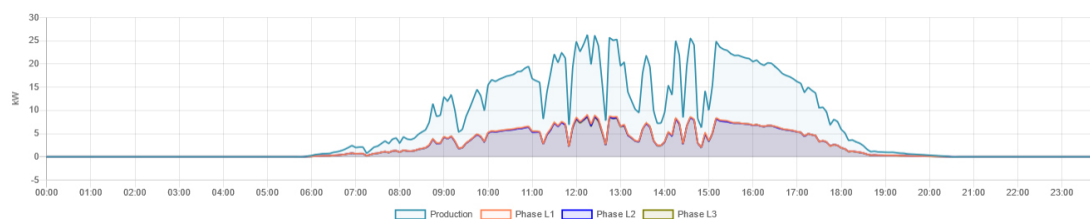


Figure 5. History per phase

4.2. Use as a consumption meter

When used as a consumption meter, you will see the following widget:

 Verbrauch	
Ladestation	0 kW
Wärmepumpe	0 kW
Sonstiger	2,3 kW

Figure 6. Use as a consumption meter

In the example above, a meter was used as a consumption meter for the heat pump.

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

Gesamt	3.216 W
Phase L1	2.889 W
Phase L2	162 W
Phase L3	165 W
Ladestation	2.742 W
Wärmepumpe	10 W
Sonstiger	378 W

 Die Summe der einzelnen Phasen kann aus technischen Gründen geringfügig von der Gesamtsumme abweichen.

Figure 7. Detailed view of consumption meter



In contrast to the charging station and heat pump, total consumption is calculated and not measured directly.

You can view the respective consumption of the device over time via the "History" tab in Online Monitoring:

4.2. Use as a consumption meter

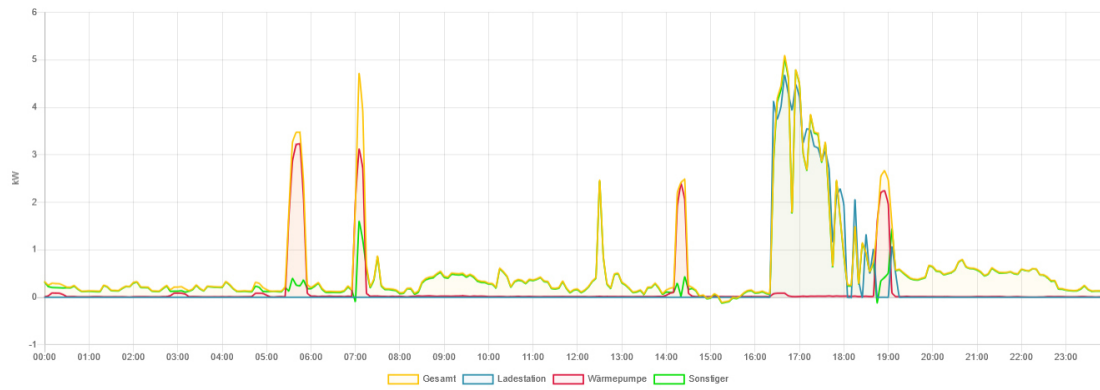


Figure 8. History — Consumption meter

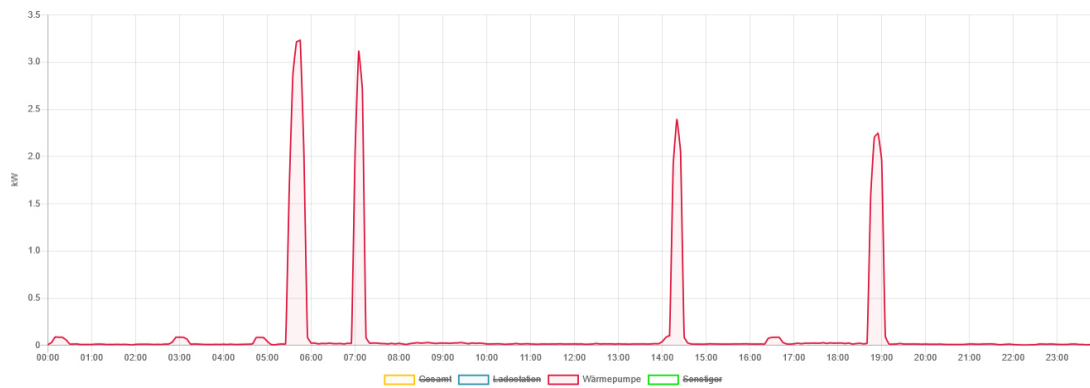


Figure 9. History — Consumption meter — Heat pump

5. Contact

For support, please contact:

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Gewerbepark 6
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Phone — Service: +49 (0) 9903 6280 0

E-Mail — Service: service@fenecon.de

6. Directories

6.1. List of illustrations

Figure 1. Widget

Figure 2. Detailed view

Figure 3. History

Figure 4. Activation of the view for generation per phase

Figure 5. History per phase

Figure 6. Use as a consumption meter

Figure 7. Detailed view of consumption meter

Figure 8. History — Consumption meter

Figure 9. History — Consumption meter — Heat pump