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FEMS App Production and Consumption Meter

Version:2023.4.1

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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. Requirements and compatibility

To use the "FEMS App Production and Consumption Meter", a EMS-supported meter is required.

Devices from the following manufacturers are currently supported:

Carlo Gavazzi

- EM330
- EM340

Janitza (→ Configuration Manual)

- Netzwork Analyzer UMG 96RM-E
- Network Analyzer UMG 604-PRO
- Power Quality Analyzer UMG 511
- Power Quality Analyzer UMG 512-PRO
- Network Analyzer UMG 96-PA-MID+

PQ Plus (→ zur Konfigurationsanleitung)

- UMD 96, UMD 96EL, UMD 96S
- UMD 97, UMD 97EL, UMD 97E, UMD 97CBM
- UMD 98
- UMD 807
- UMD 913
- MMB 700
- MMU 3
- MMI 12
- UMD 701, 704, 705, 707, 709, 710
- UMC 26

Eastron (→ Configuration Manual)

- SDM630 MODBUS-MID
- SDM72D-M

KDK

- 2PU CT (available in German)
  (→ Installation and Configuration Manual)
- KDK3-100AM-43 — 0.25-5(100)A (available in German)
- 4PU
  (→ KDK 4PU — Installations- und Konfigurationsanleitung)

Shelly (→ Configuration Manual)

- Shelly Pro 1PM
- Shelly Pro 2PM
- Shelly Pro 4PM
- Shelly Pro 3EM-400
- Shelly Pro 3EM 3CT-63
- Shelly 3EM-63W Gen3
- Shelly 3EM-63T Gen3

Shelly (Plug) (→ Configuration Manual "Shelly DIY")

- Shelly Plug S Gen3
- Shelly Outdoor Plug S Gen3
- Shelly Plus Plug S

SOCOMEC

- COUNTIS E14
- COUNTIS E23
  (→ Installation and Configuration Manual*)
- COUNTIS E24
  (→ Installation and Configuration Manual*)
- COUNTIS E44
- COUNTIS E47/E48
- DIRIS A-10
  (→ Installation and Configuration Manual*)
- DIRIS A-14
- DIRIS B-30

WAGO

- WAGO 2PU CT
  (→ Installation and Configuration Manual)

Table 1. Compatibility EMS Meter

* Models marked with an asterisk are part of the product archive.

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 EMS App Center.

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



Image 1. Widget

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

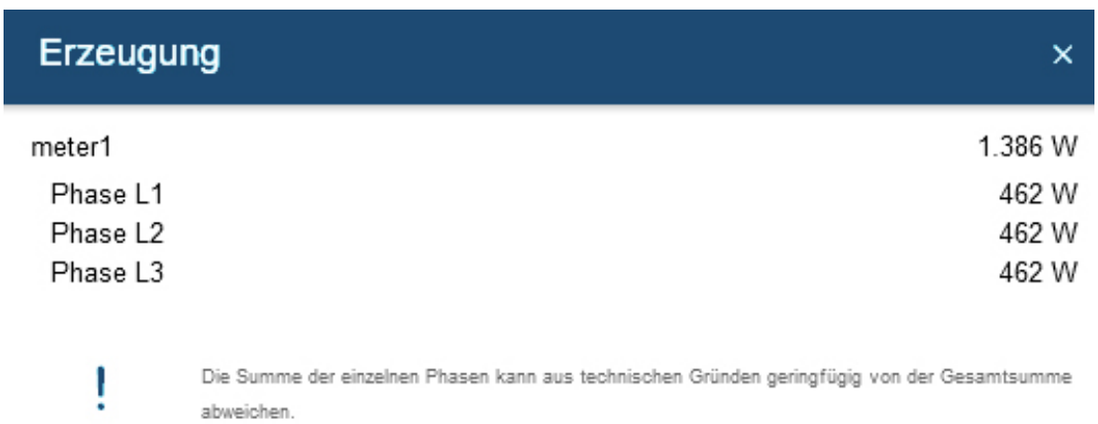


Image 2. Detailed view

The power per phase is also displayed here.

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

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

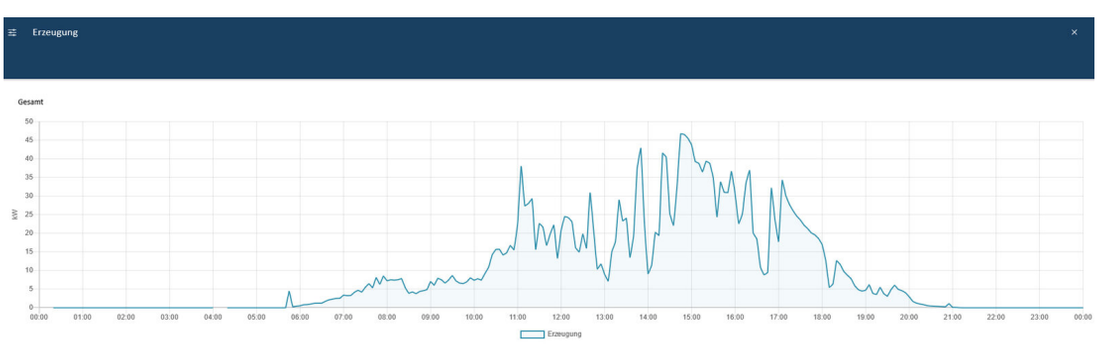


Image 3. History

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

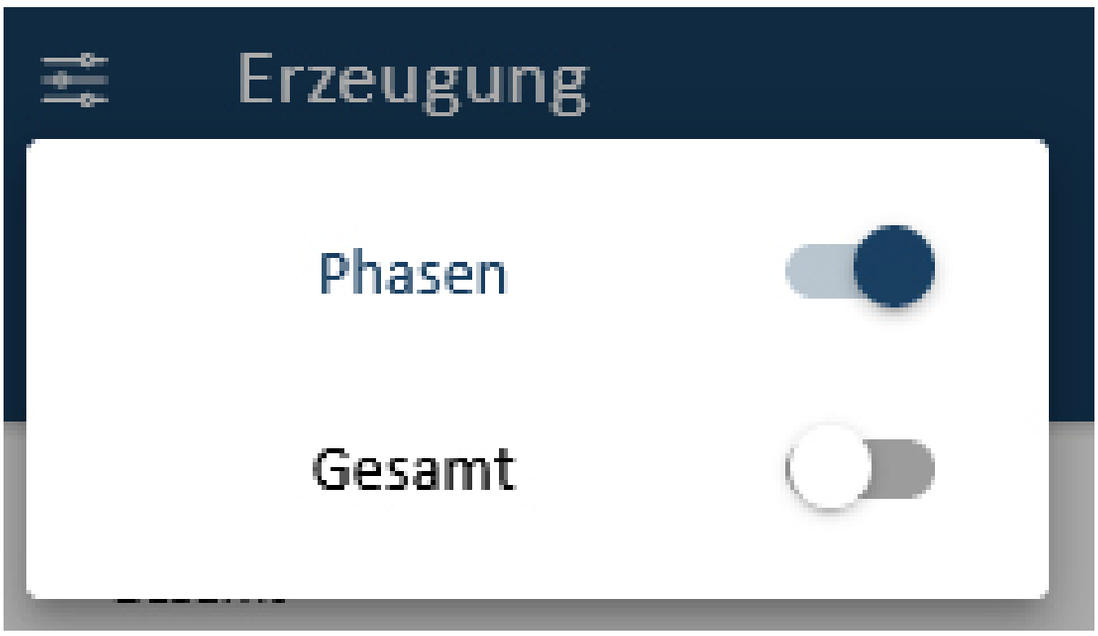


Image 4. Activation of the view for generation per phase

The generator is then displayed over time per phase

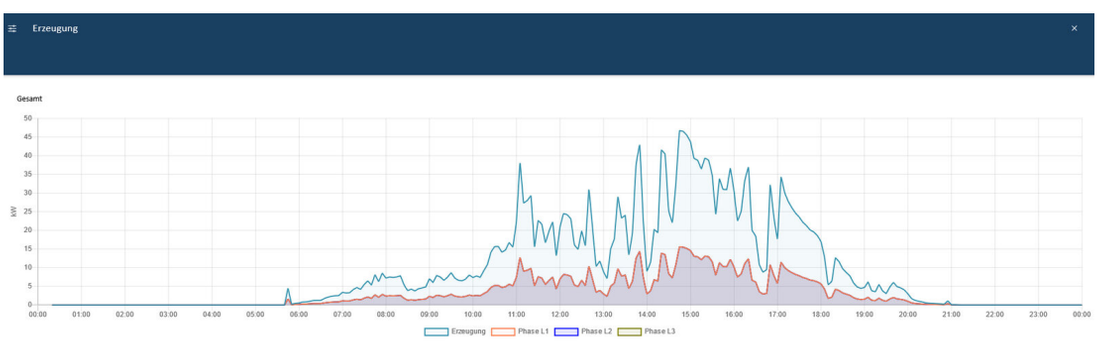


Image 5. History per phase

4.2. Use as a consumption meter

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



Image 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:

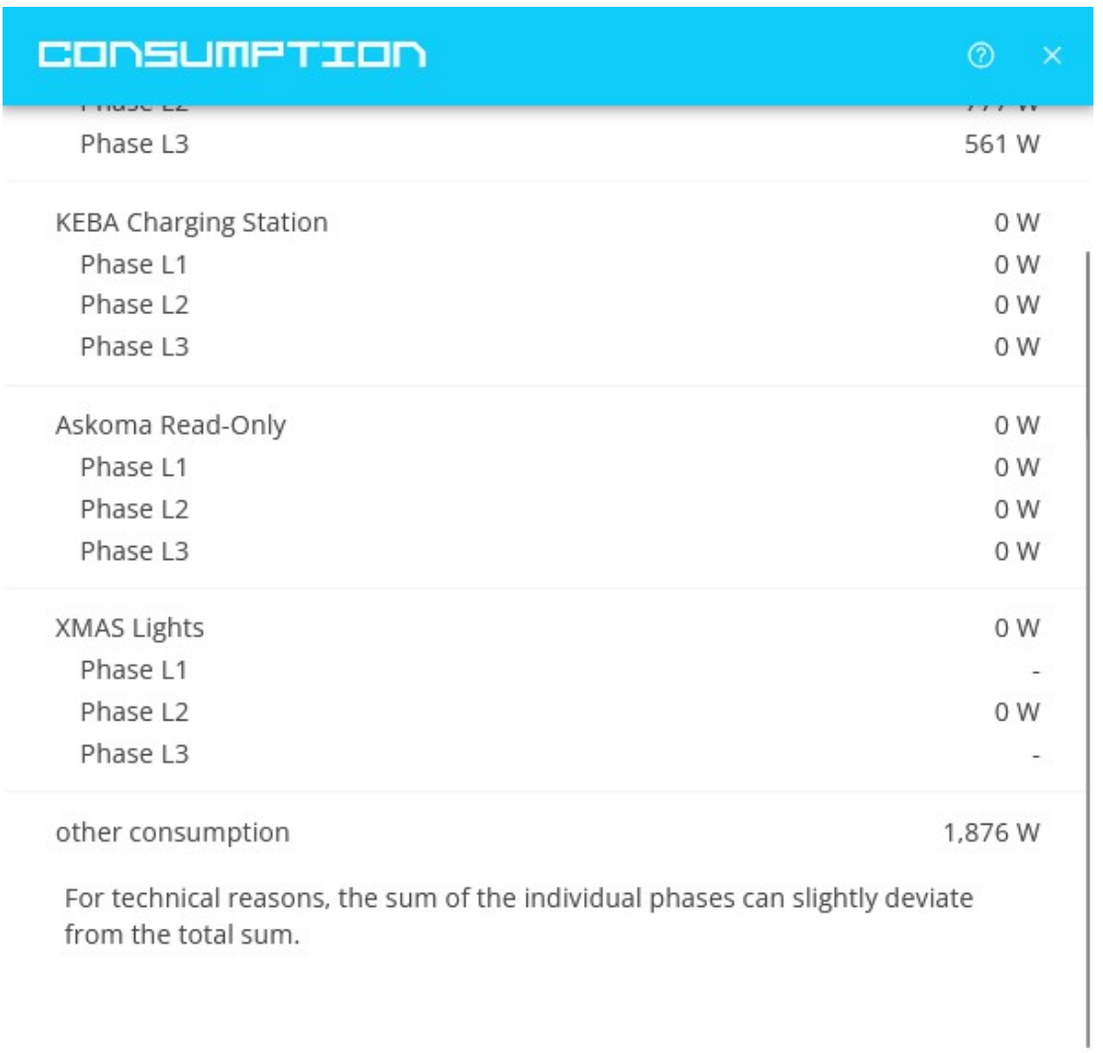


Image 7. Detailed view of consumption meter

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:

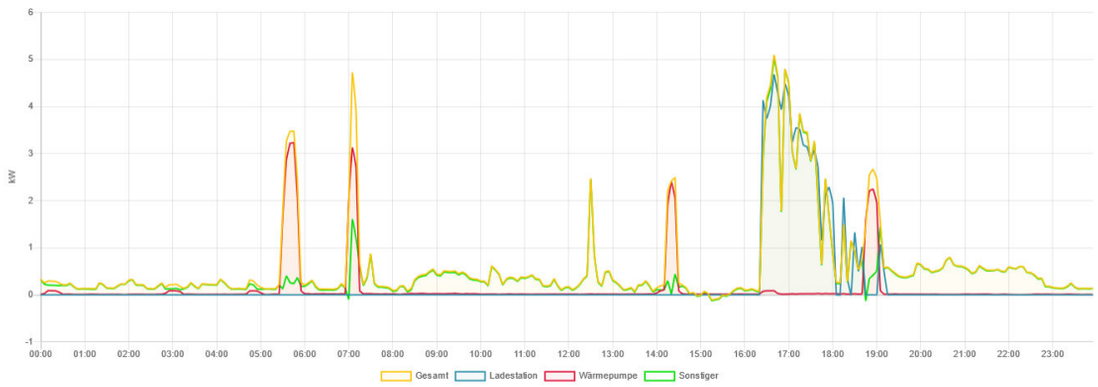


Image 8. History — Consumption meter



Image 9. History — Consumption meter — Heat pump

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

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