



FEMS App Production and Consumption Meter

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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. Requirements and compatibility

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](#)

Janitza ([Configuration Manual](#))

- [Network 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 ([Configuration Manual](#))

- [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 ([zur Konfigurationsanleitung](#))

- [SDM630 MODBUS-MID](#)
- [SDM72D-M](#)

KDK

- [2PU CT \(available in German\)](#)
([Installation and Configuration Manual](#))
- [KDK3-100AM-43 — 0.25-5\(100\)A \(available in German\)](#)

Shelly ([go to config 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) ([go to config manual "Shelly DIY"](#))

- [Shelly Plug S Gen3](#)
- [Shelly Outdoor Plug S Gen3](#)
- [Shelly Plus Plug S](#)

SOCOMEK

- [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](#)

*Legacy models

Table 1. Compatibility FEMS Meter

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.

Instructions on how to proceed can be found [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:

4.1. Use as an electricity generation meter

Production	
Fronius PV inverter	10 kW
PV Ost	12 kW
PV West	10 kW

Image 1. Widget

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

Production	
meter1	1,386 W
Phase L1	462 W
Phase L2	462 W
Phase L3	462 W

! For technical reasons, the sum of individual phases may slightly deviate from the total sum.

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:

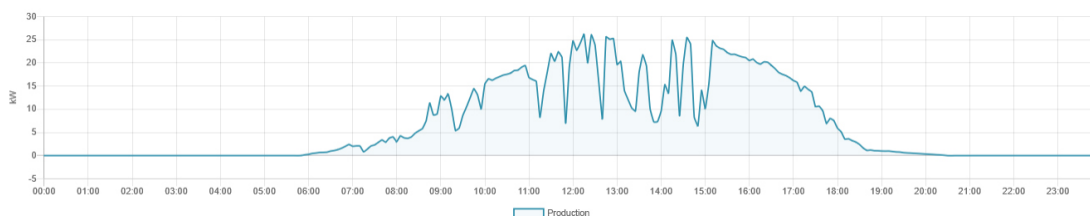


Image 3. History

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

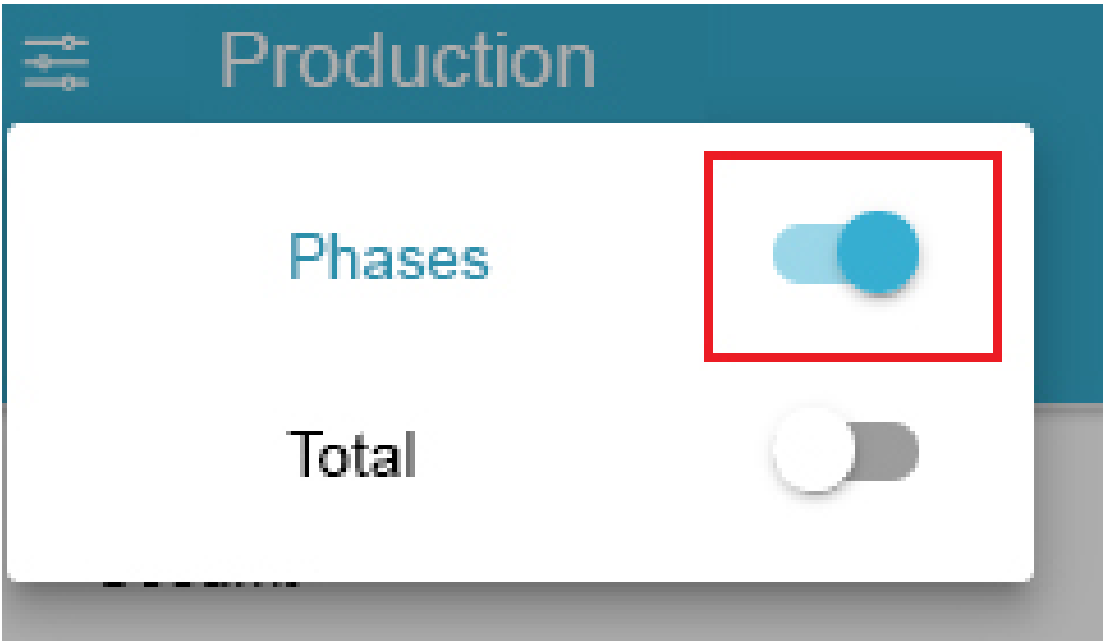


Image 4. Activation of the view for generation per phase

The generator is then displayed over time per phase

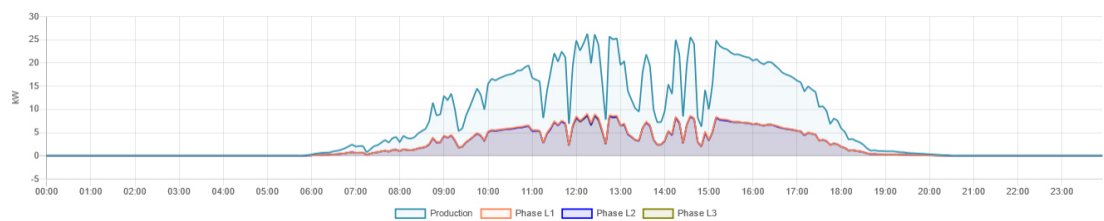


Image 5. History per phase

4.2. Use as a consumption meter

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

 Consumption	
KEBA Charging Station	0 kW
Askoma Read-Only	1.8 kW
XMAS Lights	0 kW
other consumption	1.9 kW

Image 6. Use as a consumption meter

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

4.2. Use as a consumption meter

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

CONSUMPTION	
Phase L2	777 W
Phase L3	561 W
KEBA Charging Station	
Phase L1	0 W
Phase L2	0 W
Phase L3	0 W
Askoma Read-Only	
Phase L1	0 W
Phase L2	0 W
Phase L3	0 W
XMAS Lights	
Phase L1	-
Phase L2	0 W
Phase L3	-
other consumption	1,876 W
For technical reasons, the sum of the individual phases can slightly deviate from the total sum.	

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:

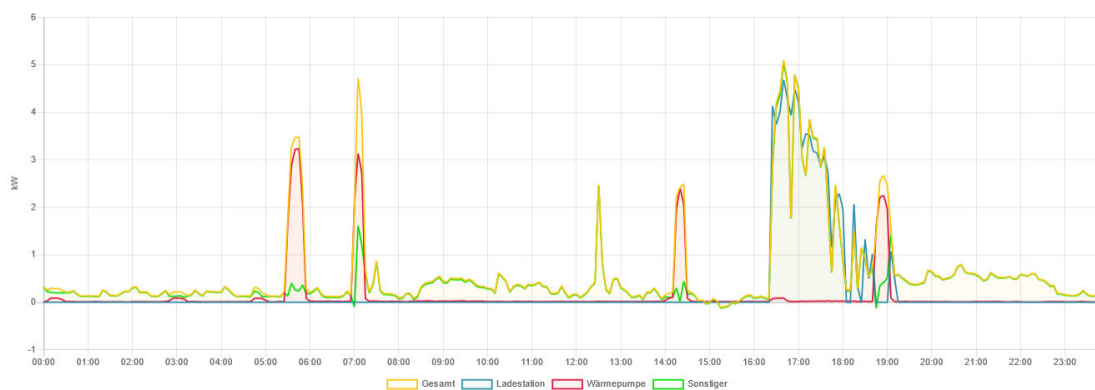


Image 8. History — Consumption meter

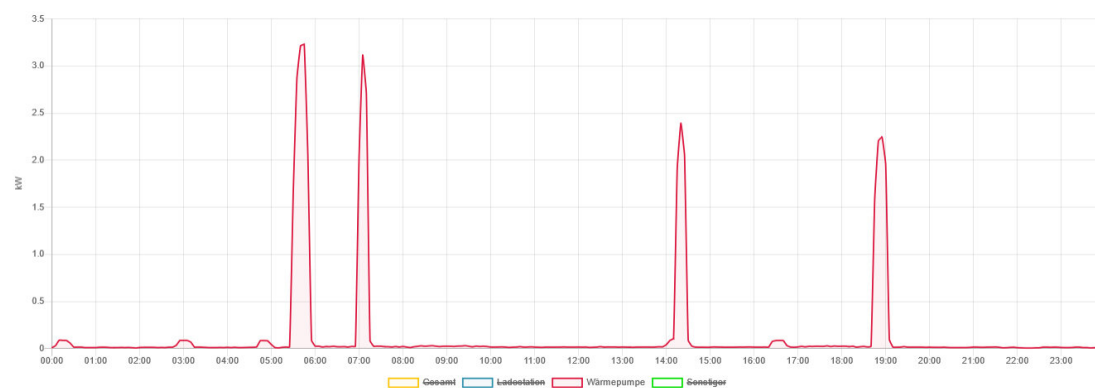


Image 9. History — Consumption meter — Heat pump

5. Contact us

5. Contact us

For support, please contact:

FENECON GmbH
Gewerbepark 6
94547 Iggensbach

Phone — Service: +49 (0) 9903 6280 0

E-mail — Service: service@fenecon.de

6. Directories

6.1. List of illustrations

Image 1. Widget

Image 2. Detailed view

Image 3. History

Image 4. Activation of the view for generation per phase

Image 5. History per phase

Image 6. Use as a consumption meter

Image 7. Detailed view of consumption meter

Image 8. History — Consumption meter

Image 9. History — Consumption meter — Heat pump