Power control for electric car charging

v 1.0
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Enegic Monitor

Enegic Monitor is an advanced solution for dynamic power control of larger electricity consumers such as EV chargers.

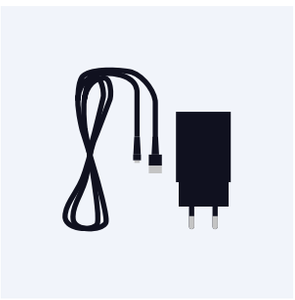
Enegic Monitor reads the power and energy consumption in real-time for each phase, making it possible to monitor the instantaneous power clearly and easily in your holiday home, house, housing cooperative, or property portfolio.

Enegic Monitor is designed to work in all types of properties regardless of new or old electricity meters and is connected directly to the phases of the electrical system. The system is designed for professional metering and control of electricity consumers on your property.

In the product packaging

1x Enegic Monitor measuring unit

3x Current sensors



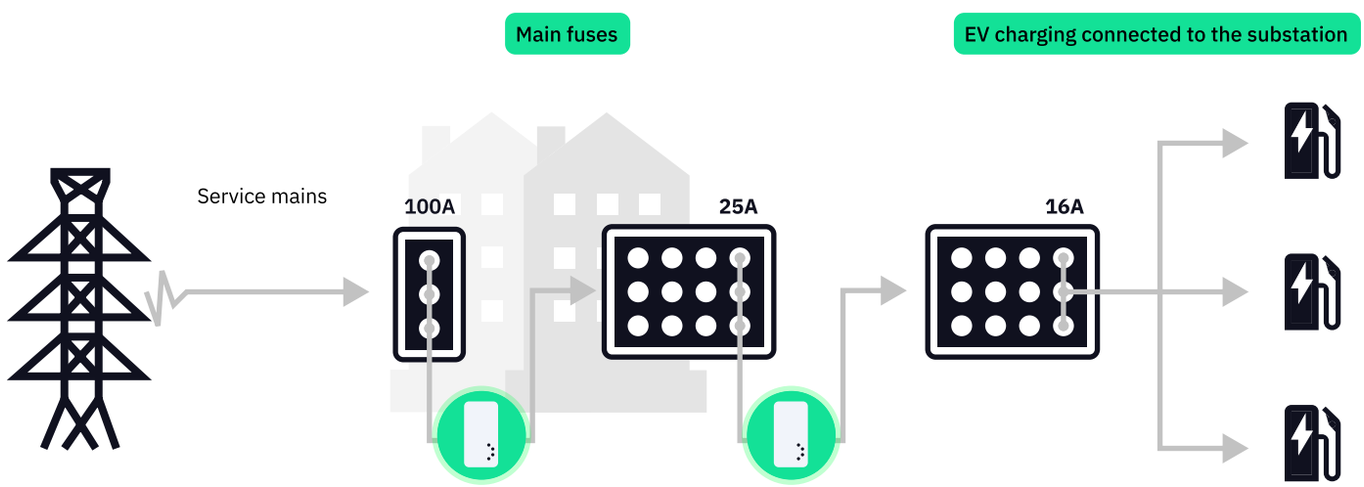
1x USB charger alt. DIN connector

1x Manual

1x License

Features of Enegic Monitor

- Power and energy measurement of three-phase consumption in real-time.
- Dynamic power control - Enegic reports available power output to your EV charger
- Power levels and energy values are reported separately for each phase to see the phase balance and make it possible to control consumption based on the load of the respective phase.
- History of electricity consumption - minutes, days, months, and years.
- Optional: Alarms for in abnormal situations, such as power outagesor abnormally high power levels, sending alarms via SMS and/or email.



Visualization

The Enegic app displays information about the property's power levels and energy consumption.

Data is displayed separately for each phase, which provides valuable information on, among other things, the phase balance of the property's electrical system.

Current sensors for all situations

To handle measurement in both small and large facilities, there are several types of current sensors: Sensors are available for 3 different diameters: **16mm**, **36mm**, and **100mm**. All three sizes are available with a normal current range of 0-900A. The two larger sensors 36mm and 100mm are also available in a high current version with a current range of 0-2.5kA.

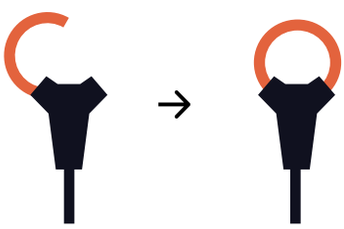
Ø 16 mm sensor

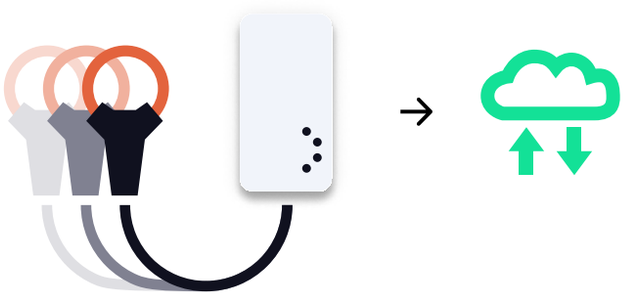
Ø 36 mm sensor

Ø 100 mm sensor

Easy installation

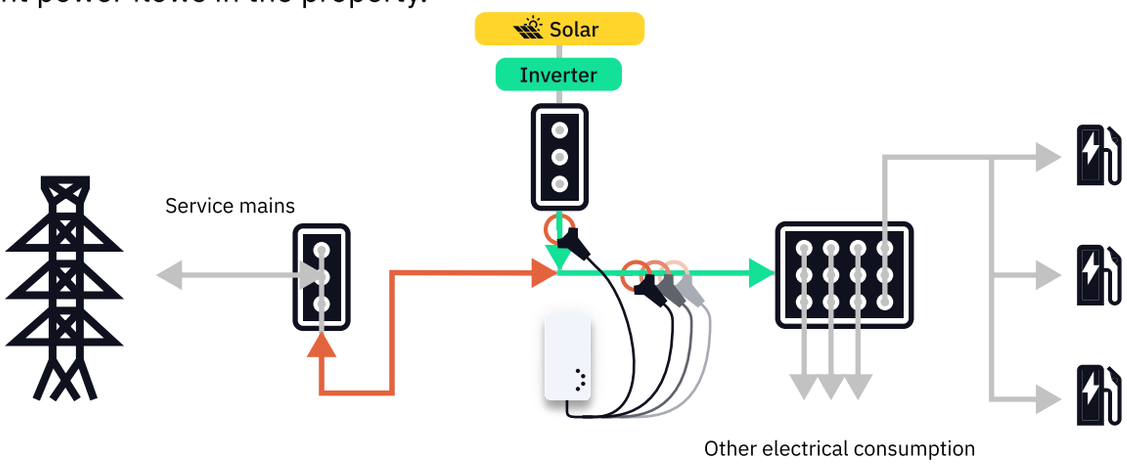
1. Enegic measurement sensors are attached around the phase conductors to be measured without the need to loosen the phase conductors.
2. The measuring device is powered via a USB cable and the included power adapter for connection in a 230V socket or using a 5V module for mounting with a DIN connector.
3. The device is configured using the Enegic app to connect to an existing WiFi network at the property.
4. Enegic Monitor communicates over the internet with the Enegic cloud and needs access to a WiFi network.





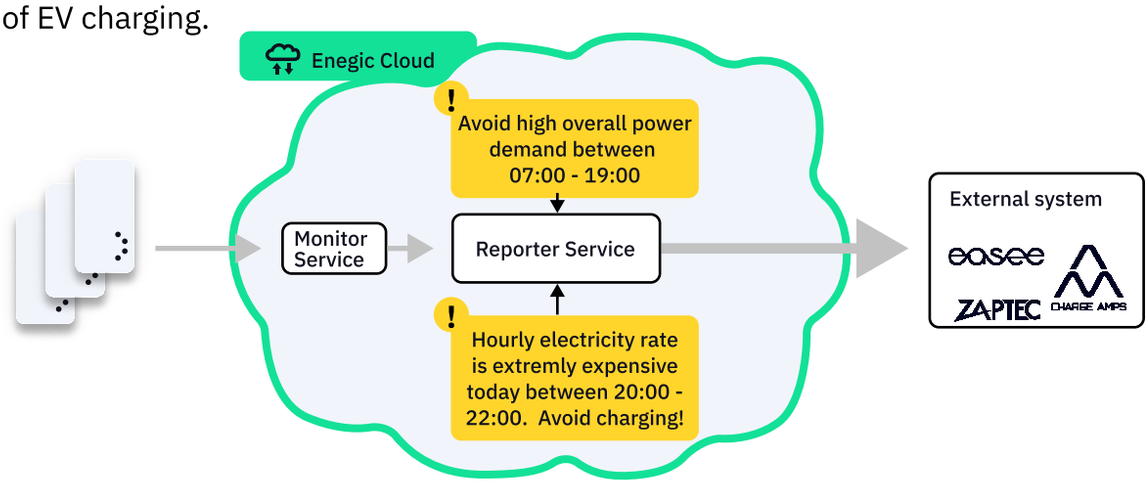
Enegic for measuring solar production

- Enegic can provide access to high-resolution information about the power output for properties with their own solar production.
- With the help of an additional Enegic Monitor measuring unit or an additional current sensor connected to the existing Enegic Monitor, the power from the solar installation inverter is measured, which gives a clear overview of the difference between production and consumption in the property.
- By measuring production separated from the property's consumption, you can clearly see the different power flows in the property.



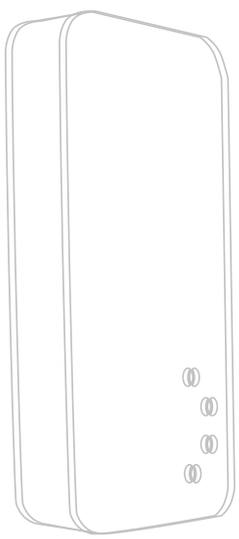
Enegic for power control of EV charging

- Enegic Reporter collects and compiles information from one or more Enegic Monitor devices and passes the information on to an EV charger system.
- Rules for considering different costs - such as peak power and electricity rates - can assist in the control of EV charging.



Technical specification of Enegic Monitor

- High-resolution power and energy measurement and real-time data.
- Connection of measuring unit over WiFi, 2.4GHz, support for b/g/n.
- Current sensors for measuring phase conductors up to 12mm thickness.
- Power sensors measure 3-phase currents up to 900A/phase.
- Special sensors up to 2.5kA
- Multiple Enegic Monitor devices can be configured for multi-point measurement within a property.
- Ready-made functions for measuring self-produced solar energy in relation to own consumption.
- Firmware upgrades are handled automatically via the Enegic platform.
- Configuration is done via the installed Enegic app on Android and iOS devices.
- Local storage of measurement data in the measuring unit in the event of communication interruption.



Item	EM1
Network connection	Wifi 2.4 GHz, stöd för b/g/n
Dimensions	11cm x 5,9cm x 2,2cm
Weight	79g
Time to install	10 min