

Energy Guard

Quick Guide

Congratulations on the purchase of the **Enelion** product and thank you for your trust. Before the installation, make sure that the module packages contain all the elements: Energy Guard module and set of the measuring coils.



Current version of the operation manual can be accessed at <http://enelion.com/en/help/>

Basic information

Enelion Energy Guard is a device that monitors energy consumption of the whole building - from a single household to the largest office parks. Based on the power provided by the energy supplier and the current consumption measured by Energy Guard, it is possible to obtain information on how much power can be directed for EV charging.

Enelion Energy Guard is a device with 105x20x80mm dimensions. EEG requires to be installed inside the electrical switchboard on the DIN rail.

Since the Enelion Energy Guard has different dimensions than the standard fuse which is installed in the switchboard, it is required to enlarge the hole in the blend.

INFO

All necessary information are in Energy Guard Assembly Manual. Installation should be done by qualified personel with electric permissions, who were introduced to the requirements of this manual and are equipped with the necessary tools for proper installation.

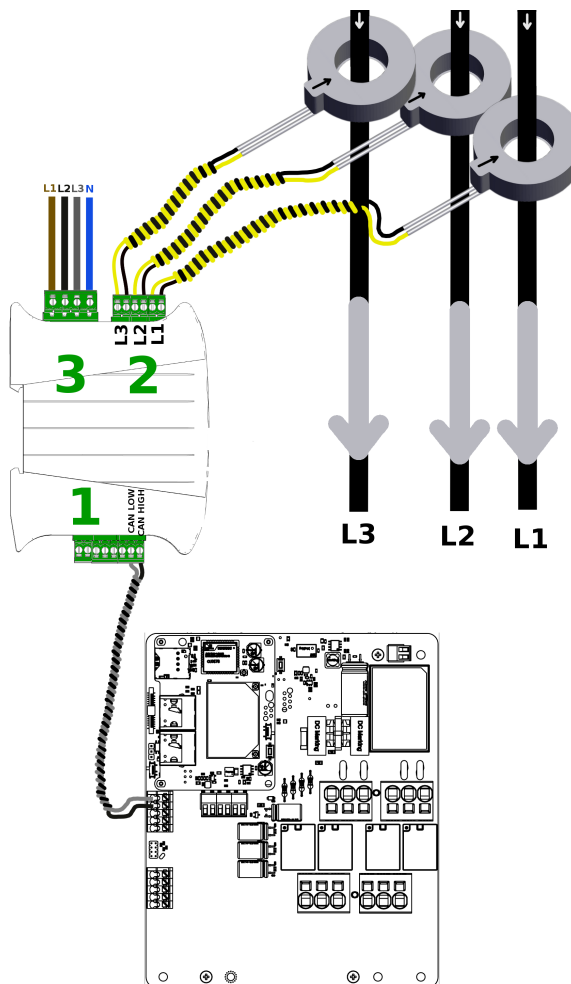
WARNING

The manufacturer is not responsible for damage resulting from failure to comply with connection schematic or failure with the electrical connection. Energy Guard can work in three or one phase configuration.

HINT

CAN bus termination should be done according to the information in the Energy Guard Assembly Manual.

Electrical installation



According to the above diagram for proper operation, three plugs connection is required (3-phase configuration):

- 1** Prepare and connect CAN cables to provide communication.
- 2** Put the measuring coils on cables according to the orientation which is shown in the schematic (1-phase or 3-phases) and connect the plug to the Energy Guard socket.
- 3** Connect voltage lines according to the main schematic. This device is not require special overcurrent protection. Suggested cables with a conductor cross-section of 0,5 mm².

Usage preparation

Before first use of the Energy Guard, make sure that:

1. The device was properly connected to the power network.
2. The communication cord was properly connected.
3. There was kept the right order of the measuring coils.

WARNING

Faulty measuring coils connection could cause incorrect algorithm work.

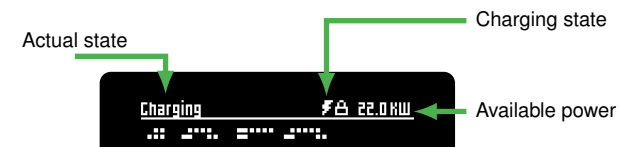
First launch

To start operating with the Energy Guard, make sure that cords and connectors were properly connected and then switch the power on and see the state of LED controls on the front panel. If the led status pulsing **blue** or **green** it means correct connection. **Yellow** or **red** color means incorrect state or damage. In such a case, turn the power off and check the correction cords connection.

INFO

All information about LED indicators is in the assembly manual.

If the connection was made properly and the charging session is continuing, there will be possible to see the change of the value of available power on the screen - Available power.



Energy Guard can work in three or one phase configuration.

© 2021 ENELION

The manual may change as the product develops. The information provided may not be correct. All rights reserved.

Wersja: V 1.1
 Data wydania: 24 września 2021
 ENELION Sp. z o.o.
 ul. Pana Tadeusza 50, 80-123, Gdańsk, Polska
www.enelion.com