



enelion

# Accessory: MID

## Installation guide in a Wallbox charger

Enelion Sp. z o.o

[info@enelion.com](mailto:info@enelion.com)

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The following instruction describes actions that need to be taken in order to install the MID meter in a Wallbox charger. You should read all the instructions before taking any installation steps. Installation must be done by a qualified and competent person, who became acquainted with the instructions provided by the manufacturer regarding the operations that need to be performed.

Before the installation make sure that the box contains all accessories from the list below:

- MID meter,
- an installation manual,
- a DIN rail,
- a kit x 2: screw, washer, nut.

The current version of the manual and installation guide is available at **[www.enelion.com/manuals](http://www.enelion.com/manuals)**.

Before taking any actions related with the installation or starting the accessory you must read this instruction.

# 1 Important information

## 1.1 General provisions

The Enelion charger (further called the device, the charger or the charging terminal) is a charging station dedicated for charging electric cars as defined in the Act of 11 January 2018 on Electromobility and Alternative Fuels, in Art. 2, subsections 5, 12, 13 and 27 of the above mentioned Act.

Before installing and using the device read this instruction.

Installing and servicing the device must be done by qualified individuals with proper certification, and repair works may only be carried by the manufacturer or by entities authorized by the manufacturer.

Tampering with the mechanical, electrical and electronic elements as well as the software of the device is forbidden under the pain of forfeiting the guarantee. The actions defined in this instruction and the actions which were agreed upon with the manufacturer in writing are an exception.

The manufacturer shall not be liable for property damage resulting from the above mentioned incidents of tampering with the product.

The electric wiring system which will be used by the device when in operation must meet the requirements described in the fitting manual. The manufacturer is not responsible for the improper installation and/or inadequate security of the wiring system used by the device.

The manufacturer is not responsible for the improper operation of the wiring system used by the device.

The electric wiring system which will be used by the device when in operation must be in compliance with the legal norms binding for the place where the wiring system is installed and the device is used. The manufacturer is not responsible for any damage caused by the wiring system which does not meet the legal norms.

The device is not equipped with an inbuilt switch. It starts operating once power supply is accessed. Isolation from power supply must be done through proper instruments described in the fitting manual. Except for emergency situations the device may not be switched off while charging.

It is forbidden to provide power supply when the device casing remains open.

It is forbidden to use a charger which has mechanical damages or which signals critical error.

It is forbidden to place in the charger socket any objects which are not intended for this purpose. The only object intended to be placed in the charger socket is a working wire which has the right section for the capacity of the device and the type of vehicle, with a working type 2 plug according to EC 62196-2.

The manufacturer is not responsible for health or life loss resulting from not following the above mentioned recommendations.

The nameplate on the device is its integral part and cannot be removed or damaged under the pain of forfeiting the manufacturer's guarantee.

## 1.2 Protection guidelines

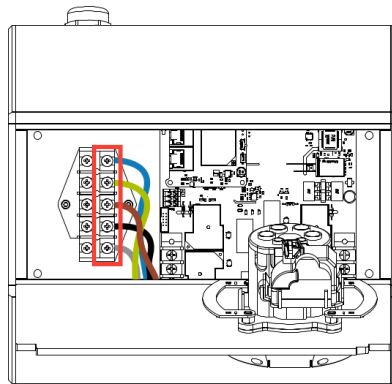
- The outdoor installation should not be carried in the rain, snow or strong wind, if there is any risk that water or dirt could get inside the device.
- All actions described in this instruction should be carried after you make sure there is no voltage on the charging cable.

## 2 Installation

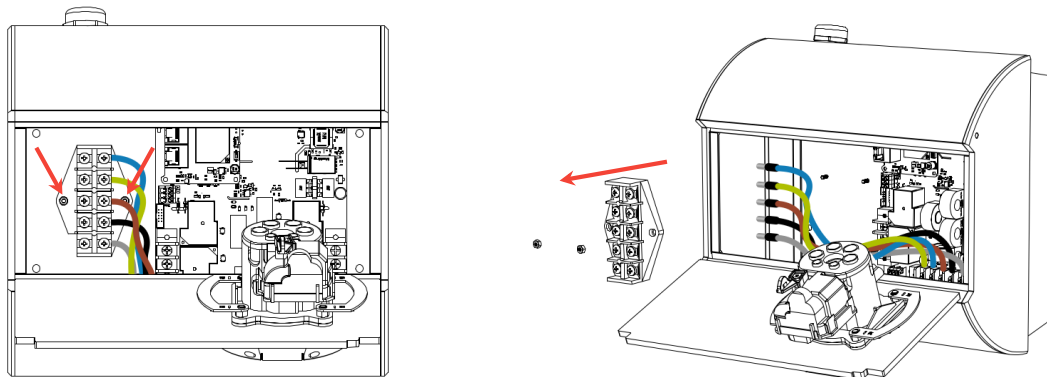
### WARNING

The MID meter may be installed only in the devices where the power supply cable is connected from the top.

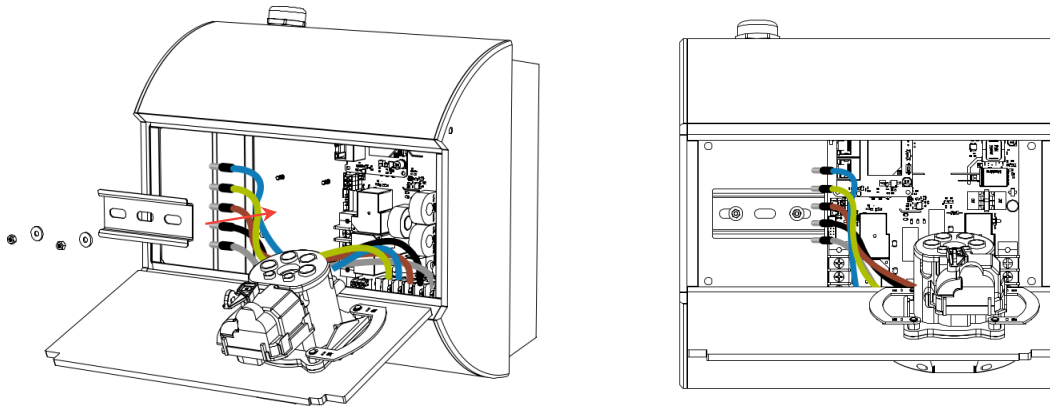
1. The back of the device should be easily accessible (the charger cannot be fixed to a wall). The device also must not be live — you must make sure the power supply cable is dismantled.
2. You should start from removing the default connection block (a diagram or image needed). To remove the default connection block you must first remove the screws from the cables running between the main board and the connection block. These should only be removed from the connection block; under no circumstances should you disconnect the cables from the main board.



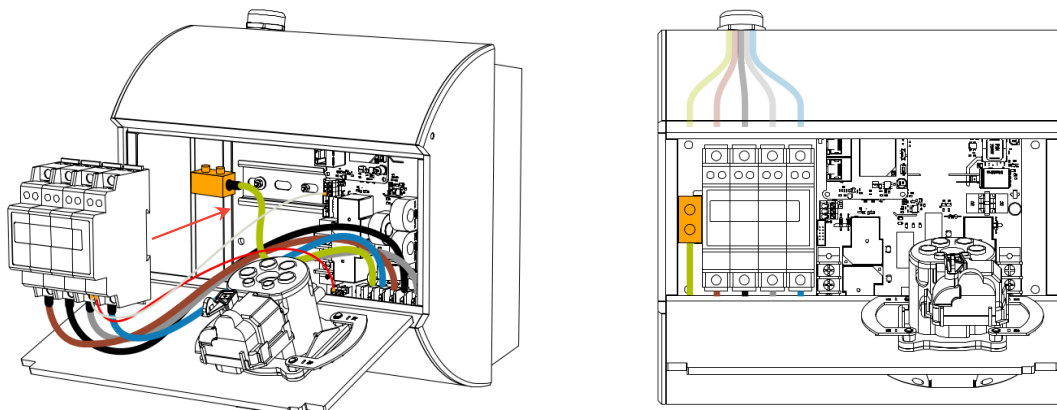
3. After you remove the cables from the connection block, the block itself must be removed. This may be done by unscrewing two screws located at the back of it. Once these are removed you can take the connection block out of the charger.



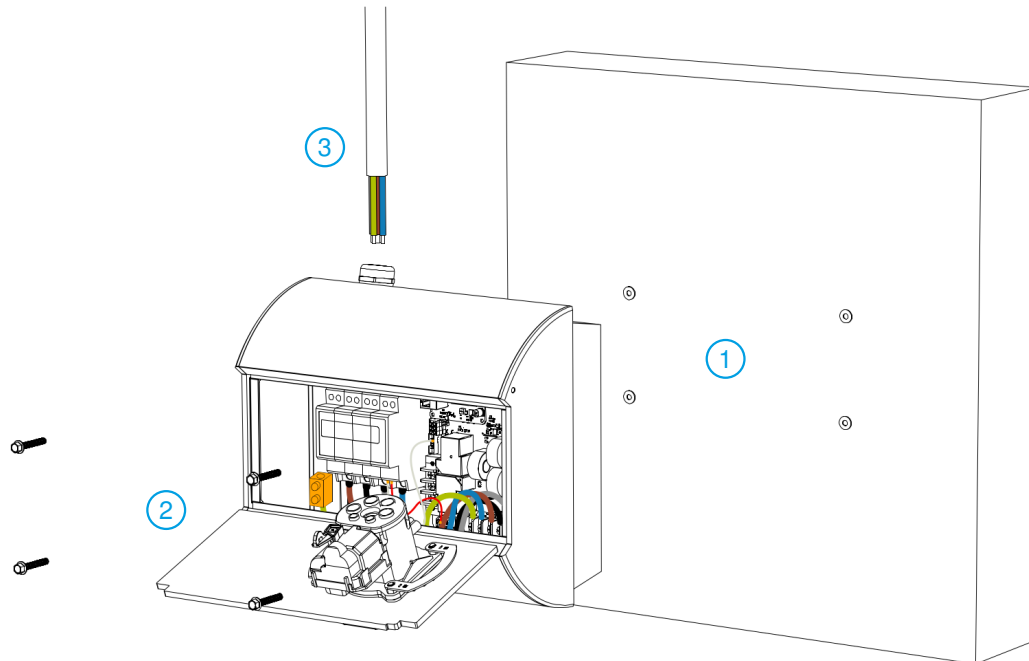
4. Now you will need a DIN rail and the screws, washers and nuts that come with the meter. The DIN rail should be placed inside the charger in such a way that its edges are not located under the main board and the elements of the rail do not cover the openings in the back wall of the charger (diagram or image). Next you should place the screws in the openings from the back, have them go through the openings in the rail and put the washers and nuts on them. These should be tightened with the use of appropriate tools well enough to allow for a stable fix.



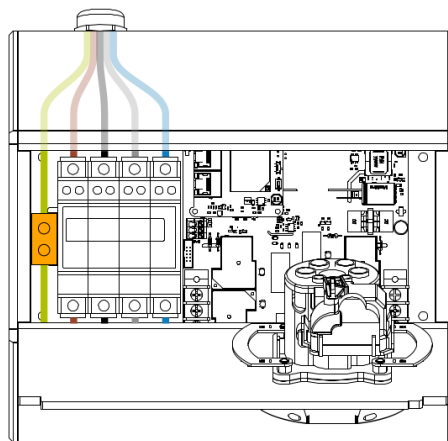
5. The meter should be removed from the plastic wrap. The cables running from the main board should be located in the crimp connectors (the hoists) in the meter and tighten, pay attention to the markings on the meter housing. The hoists should be tightened well enough not to allow for the mounted cables to be pulled out of it forcefully. The phase cables and the neutral cable must be fixed this way (the cables that should go inside the meter are the black cable, the brown cable, the grey cable and the blue cable). The yellow and green cable, which is necessary for grounding, should be left outside the meter.
6. Next insert the signal cables from the meter to the main board into the gray spring loaded terminal block. The white wire in the left socket in the port described as **GND** and the red wire in the socket at the bottom of the board in the **MID A** port. To insert the wire into the slot, release the spring by pressing the square button with a flat-blade screwdriver.
7. Once all the cables from the device are installed in the meter, the meter should be mounted onto the DIN rail previously fixed inside the meter.



8. Now the device should be mounted onto a wall. The power supply cable should be led through the cable gland located at the top of the device (the cable gland must not be tightened yet). For the convenience of the person installing the device the cable should be pulled out by additional 15 cm to give them comfort when placing sleeves on the cables. Next, the sleeves with the appropriate diameter should be placed on isolated ends of the power supply cable (on each of the 5 cores). Then you should place the cores one by one inside the hoists, starting from the right side of the meter, and one by one tighten them at least as strongly as the cables running from the main board to the charger were fixed (that is not to allow the cords to be pulled out).



9. Next, the device must be grounded. The grounding wire (yellow and green) running from the device should be connected with the grounding wire in the power service connection. It is advised to use a terminal block adequate for the grounding wire with the bigger cross section (if the grounding wire from the power service connection has a cross-section bigger than  $6 \text{ mm}^2$  — it is the cross-section used in the device), with a current characteristic equal to or higher than that programmed in the charger. Other ways of connecting the wires are also allowed if these are done by a qualified person in compliance with the security standards and the current state-of-the-art in installing electrical equipment.
10. Finally the excess cable from the power service connection should be pulled out from the device and the cable gland should be secured to provide tightness. The allowed cross sections for the power supply cable were described in the manual for all Wallbox products which may be found on the following website: [enelion.com/manuals](http://enelion.com/manuals).



11. When all actions are completed you should close the device by fixing the front panel accordingly. Your Wallbox is now ready to use and may be switched on.





