

Electricity measuring module (1 channel) for Niko Home Control

550-00801



This module is used to measure your overall electricity consumption, solar production and energy consumption of individual devices. All values measured are sent to the Niko Home Control installation and are saved on your connected controller.

You can use the measured values to:

- monitor electricity consumption, production and self-consumption, by using the Niko Home app
- receive notifications in case of abnormal energy consumption, by using smart energy alerts in Niko Home Control
- increase your self-consumption, by using the Niko Home Control solar mode to automatically activate appliances in case of excess solar energy
- control your peak consumption, by using the Niko Home Control peak mode

This article is protected by at least one patent (or patent application). For more info on patents, see www.niko.eu/innovation.



Technical data

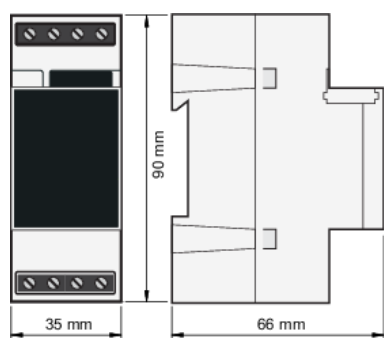
Electricity measuring module (1 channel) for Niko Home Control.

- Function: The electricity measuring module is available with one channel or three channels and is used for measuring the consumption or electricity production on one or several switching circuits or phases. Typical applications for these modules:
- measuring the total electricity consumption of the dwelling that is connected to a single-phase supply network.
- measuring the total electricity consumption of the dwelling that is connected to a three-phase supply network 3N 400 V AC.
- measuring the total electricity consumption of the dwelling that is connected to a three-phase supply network 3 x 230 V AC, if it is possible to divide this network into three single-phase circuits.
- measuring the amount of energy generated by photovoltaic solar panels.
- measuring the consumption of specific circuits, such as the upper floor of a house, for instance.
- assessing which devices are heavy electricity users. The measuring module measures the electrical current in one or several conductors via

the current clamps supplied. The module measures the voltage of the phase to be measured via the connection terminals. By measuring both electrical current and voltage, the installation can accurately assess how much electricity is consumed or produced in the home. All values measured are sent to the Niko Home Control installation. A detailed overview of these data can be requested via smartphone. If you want to keep track of your home's past electricity consumption, then the installation must be fitted with an IP module that logs the measuring data. Select an electricity measuring module with one channel or an electricity measuring module with three channels, based on the number and type of channels you wish to measure. Alternatively, the electricity consumption can be measured by a pulse counter provided that the electricity meter is fitted with a pulse output. If the Niko Home Control installation is fitted with an IP module, then this module can be used to store measuring data. How long the IP module will store this data for will depend on the number of channels in the installation. An overview is provided in the table below. Provided that everything is installed correctly, the electricity consumption will always be displayed as a positive number while the amount of electricity generated (e.g. by solar panels) will always be displayed as a negative number. Use the programming software to select the currency of your choice: EUR or GBP. The following settings can be selected per channel:

- channel name.
- single-phase or three-phase use.
- channel type: global (meter from the energy supplier), consumer, amount generated. When the module is functioning properly, the STATUS LED will light up in TEST mode only. If one or several errors occur, the LED will blink to indicate the error code of the error with the highest priority.
- measurement range: 5 - 14 500 W, 22 mA - 63 A
- accuracy: IEC62053-21 class 1 (R), class 2 (L)
- single-phase connection: 230 V AC, 50 Hz
- 1 current clamp (included)
- cable thickness for the current clamp: 1 x 10 mm² or 6 x 2.5 mm² or 9 x 1.5 mm²
- length of the connector cable at the current clamp: 100 cm
- not suited to measuring direct current components
- measuring units only for information purposes, not valid for invoicing
- Sliding contact: Sliding contact to connect the module to the following module on the DIN rail
- Energy: optimise energy consumption
- Input voltage: 230 Vac
- Maximum MCB rating: 20 A (limited by national installation rules)
- Number of terminals: 4 connection terminals to measure the voltage of the connected circuit and 2 connection terminals to connect the current clamp included
- Terminals wire capacity: 3 x 1.5 mm² or 2 x 2.5 mm² or 1 x 4 mm²
- DIN dimensions: 2U
- Marking: CE

Dimensions



Wiring diagram

