

# Wireless measuring module (3 channels) for Niko Home Control

**552-20803**



This module is used to measure your overall electricity consumption, solar production and energy consumption of individual devices. It communicates wirelessly with your Niko Home Control installation.

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



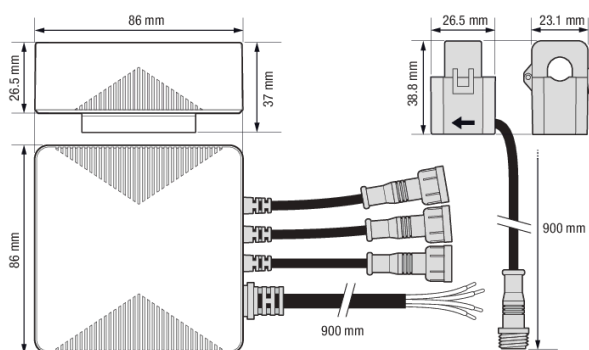
## Technical data

Wireless measuring module (3 channels) for Niko Home Control

- Function: the wireless measuring module with three channels is used for measuring the consumption or electricity production on several switching circuits or phases. Typical applications for these modules:
- measuring the total electricity consumption of the home that is connected to a single-phase supply network.
- measuring the total electricity consumption of a home connected to a three-phase supply network 3P+N (400 Vac) or 3P (3 x 230 Vac)
- 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 several conductors via the current clamps supplied. The module measures the voltage of the phase to be measured via the wires. 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 and are saved on your connected controller or wireless smart hub, providing you with insight into your total electricity consumption and the electricity production. A detailed overview of these data can be requested via the Niko Home app.

- measurement range with the current clamps supplied: 100 W
- 14490 W / 0.44 A
- 63 A
- maximum measurement range for the total measuring module: 3 x 14490 W
- wireless communication: 2.4 GHz IEEE 802.15.4 compatible with the mesh network of the wireless hub (552-00001) and wireless bridge (550-00640)
- maximum RF range: 10 m (mesh networking support for longer range)
- number of current clamps: 3 (included)
- maximum cable size in clamp: 10 mm<sup>2</sup>
- accuracy: 100 W: IEC 62053-21 class 2 (R), class 2 (L), 10 W < ... < 100 W: 5 %
- connection: three-phase: 3P+N (400 Vac), 50 Hz / three-phase: 3P (3 x 230 Vac), 50 Hz / single-phase: three circuits of 230 Vac, 50 Hz
- length of the connector cable at each current clamp: 90 cm
- the cables comply with the Euroclass reaction to fire classification Eca
- Input voltage: 230 Vac
- Maximum MCB rating: 16 A (limited by national installation rules)
- Protection degree standalone: IP20
- Dimensions (HxWxD): 86 mm x 86 mm x 37 mm
- Marking: CE

## Dimensions



## Wiring diagram

