

Wireless measuring module (3 channels)

552-20803

4 year warranty

This module is used to measure your overall electricity consumption, solar production and energy consumption of appliances like heat pumps, heat pump boilers, air conditioning and EV chargers. It communicates wirelessly with your Niko Home Control installation. All values measured can be consulted via the Niko Home app, allowing you to gain insight into your electricity (self-)consumption and production and detect deviations. You can also configure smart energy alerts that notify you when abnormal energy consumption is detected. Moreover, if you activate Niko Home control energy-saving routines such as solar mode, peak mode and EV smart charging, you can increase your self-consumption when excessive solar energy is available, avoid exceeding your peak power limit and reduce your energy costs.



Technical data

Wireless measuring module (3 channels)

- 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.

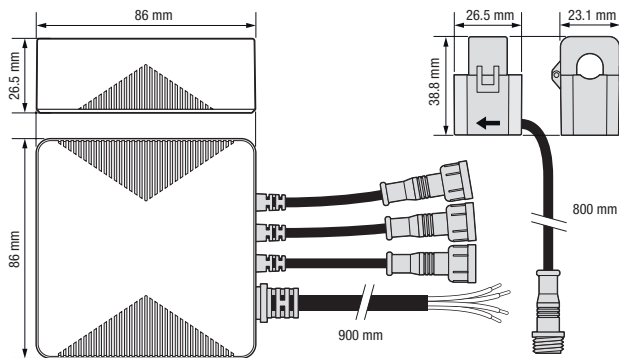
- measurement range with the current clamps supplied: 100 W – 14490 W / 0,44 A – 63 A
- maximum measurement range for the total measuring module: 3 x 14490 W
- wireless communication: 2.4 GHz IEEE 802.15.4 compatible with the mesh network of the wireless hub (552-00001) and wireless bridge (550-00640)
- maximum RF range: 10 m (mesh networking support for longer range)
- number of current clamps: 3 (included)
- maximum cable size in clamp: 10 mm²
- 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

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- length of the connector cable at each current clamp: 90 cm
- Input voltage: 230 Vac \pm 10 %, 50 Hz
- Maximum MCB rating: 16 A (limited by national installation rules)
- Ambient temperature: 0 – 40 °C
- Dimensions (HxWxD): 86 x 86 x 37 mm
- Marking: CE



Dimensions



Wiring diagram

