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Niko PM552-20803 Wireless Measuring Module User Manual

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Contents

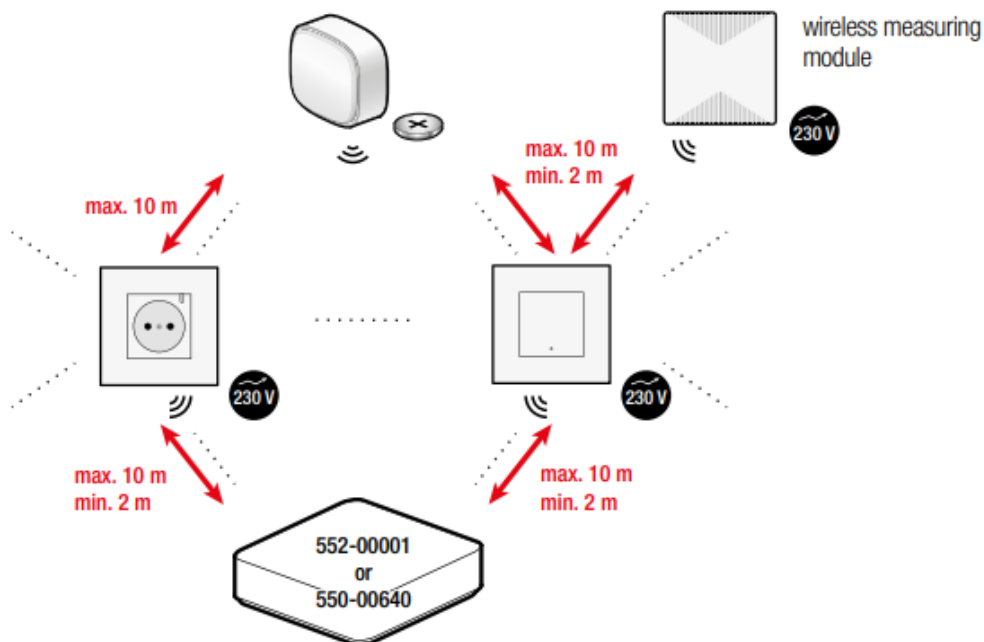## Niko Home Control wireless network

wireless measuring module

max. 10 m

max. 10 m
min. 2 m

max. 10 m
min. 2 m

max. 10 m
min. 2 m

552-00001
or
550-00640

**Niko Home Control draadloos netwerk**

Follow the network setup advice to guarantee the meshing of the devices before installing the measuring module.
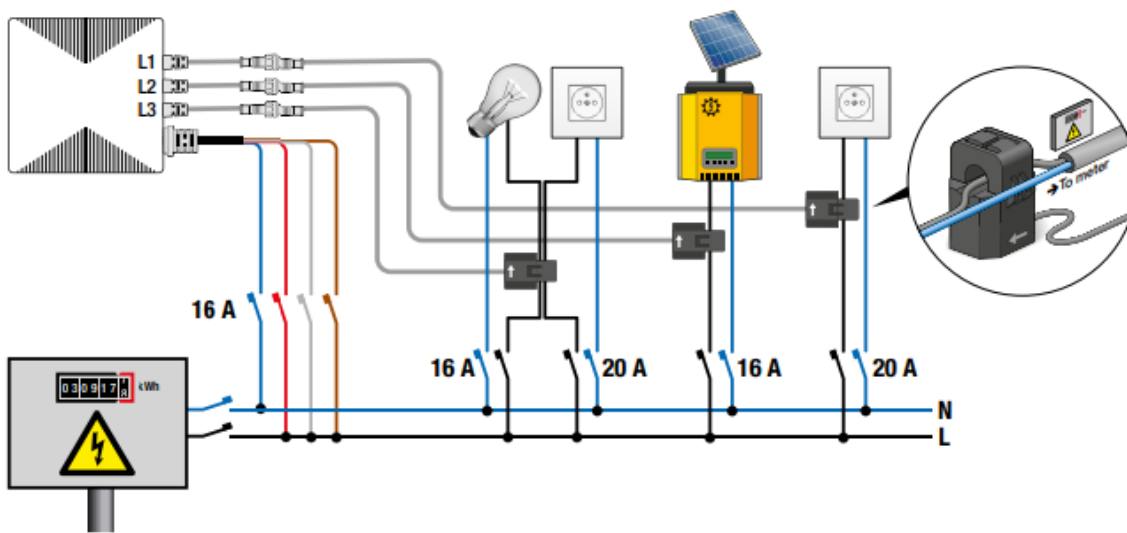More information on mesh network principles: **guide.niko.eu**
Also respect a minimum distance of 2 m between a Niko Home Control RF device (including the smart hub) and another RF transmitters (for example a Wi-Fi device) or devices such as motors, pumps, electronic LED transformers
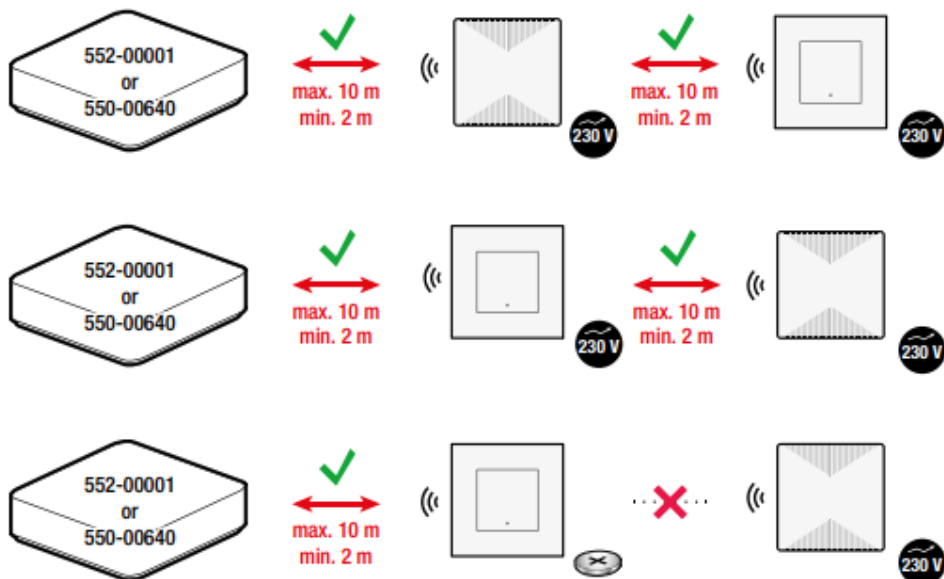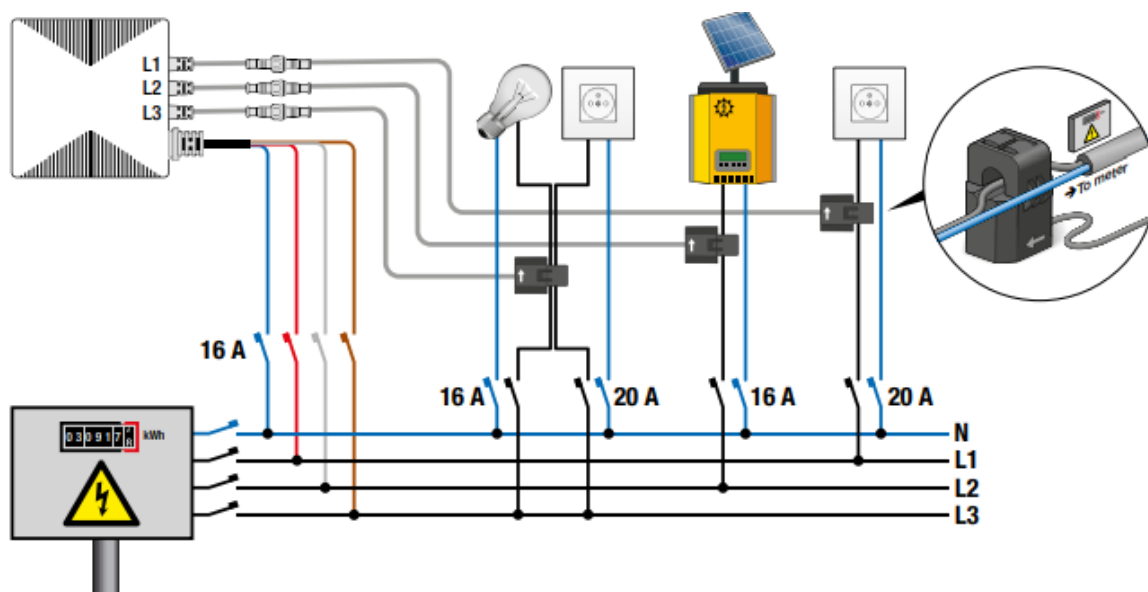

Wiring

The wireless measuring module can be submetered as follows:

single-phase, three circuits

L1
L2
L3

16 A

03917 kWh

16 A **16 A** **20 A** **16 A** **20 A**

N
L

→To meter

three-phase, three circuits

L1
L2
L3

16 A

03917 kWh

16 A **16 A** **20 A** **16 A** **20 A**

N
L1
L2
L3

→To meter

three-phase, 3P + N (400 Vac)
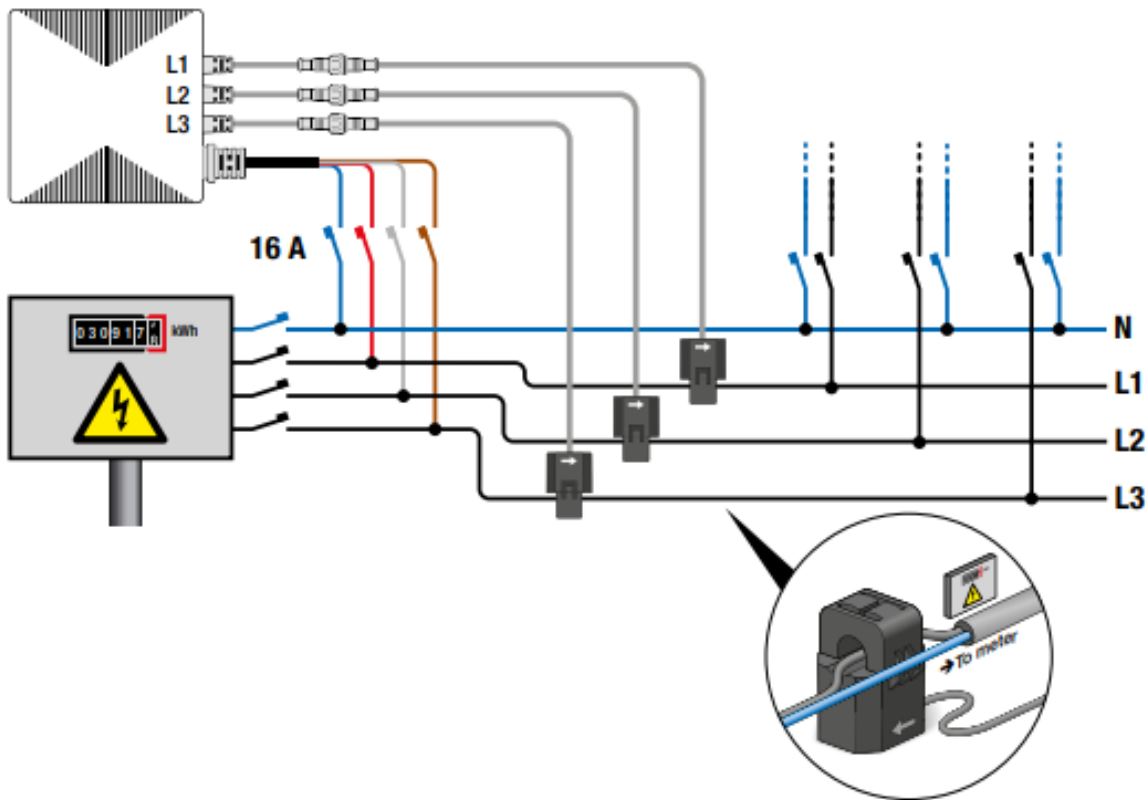
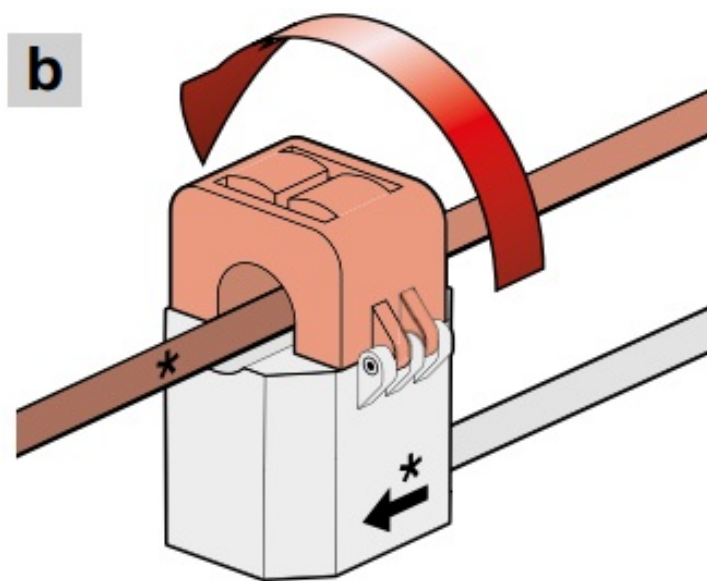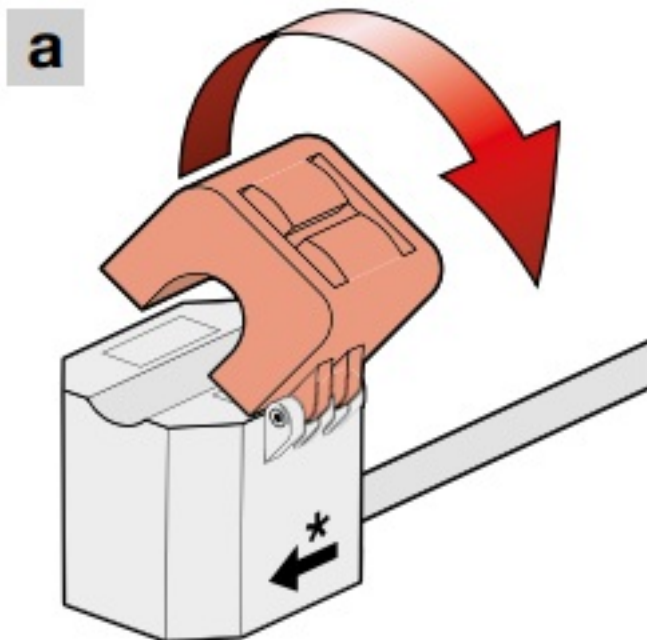**three-phase, 3P (3 x 230 Vac**
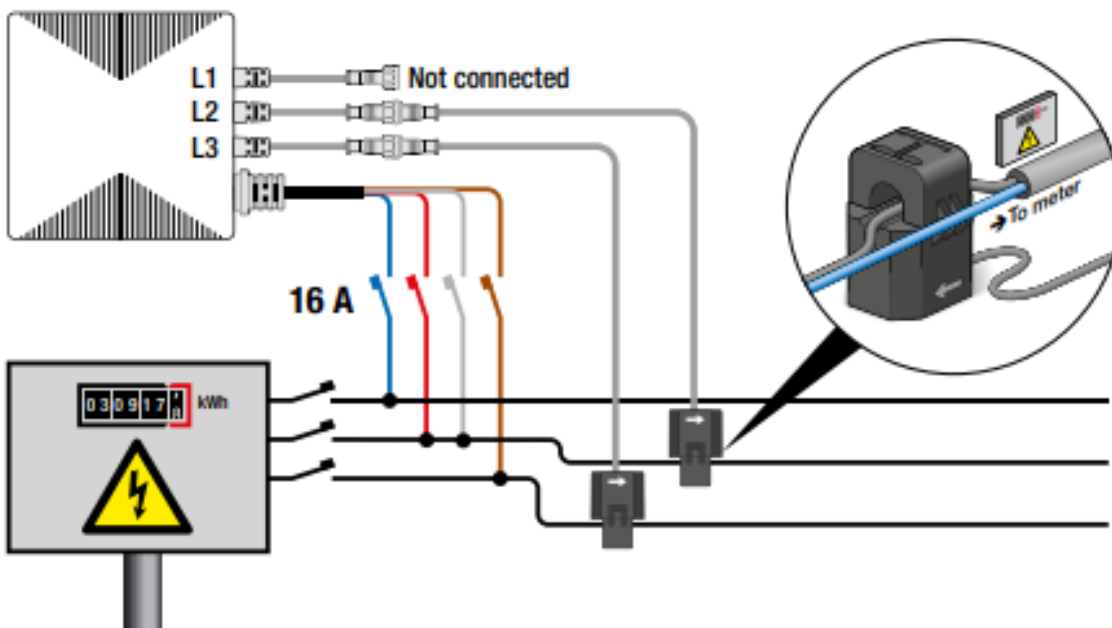
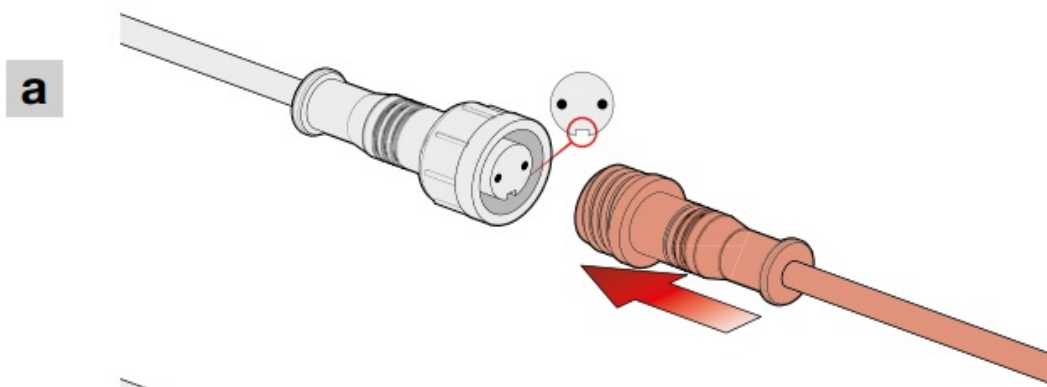⚠ This product must be secured with a miniature circuit breaker (MCB) of max. 16 A in the electrical cabinet. The MCB rating is limited by national installation rules.
Make sure to always connect the blue (N) and red (L1) wire to the same earth-leakage circuit breaker because the measuring module is powered by these wires. The cables comply with the Euroclass reaction to fire classification Eca

Dimensions

86 mm

26.5 mm

86 mm

26.5 mm

23.1 mm

38.8 mm

800 mm

900 mm

Installation

All cable inserts in the electrical cabinet need to be sealed off. The method to close off the cable entries is defined by national installation
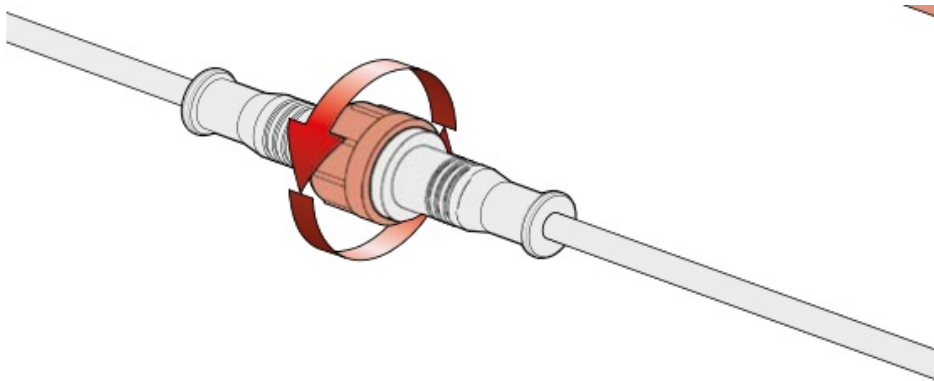
a

b

Mind the correct mounting direction.

a

Onboarding

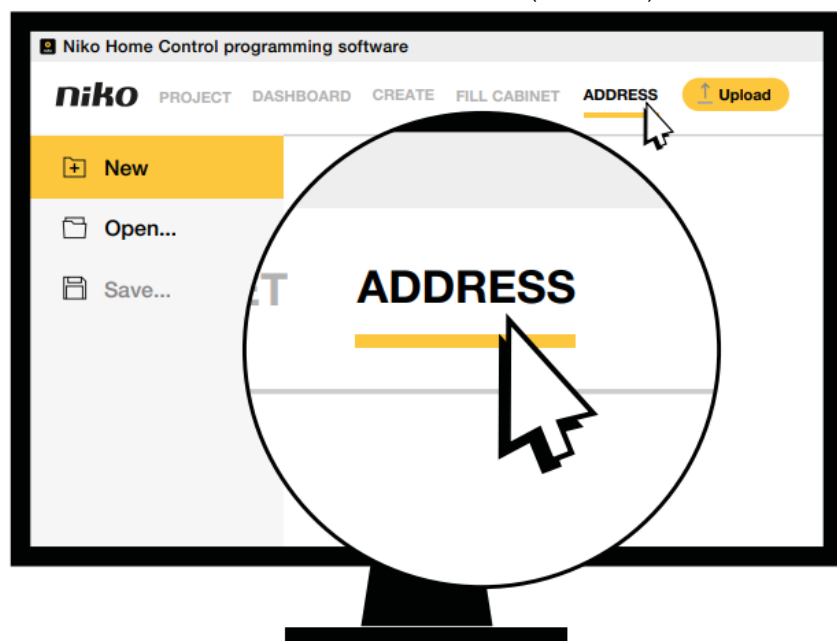The device can be onboarded via the Niko Home Control programming software.
By default, the device will be in onboarding mode.
Follow the addressing instructions in the Niko Home Control programming software.

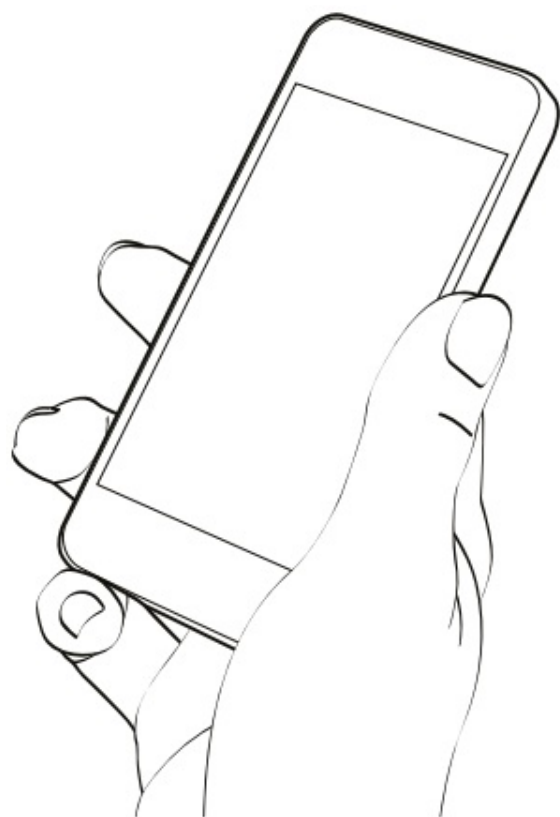### Niko Home Control programming software

Download: **www.niko.eu**/article/550-99102 (Windows) **www.niko.eu/a**rticle/550-99202 (Mac

⚠️ If an installation contains multiple measuring modules, ensure that only one module is powered during onboarding to avoid errors

Control

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LED behaviour

Green LED flashing 3 time		The wireless measuring module is reset to its default factory settings
Red LED flashing		The wireless measuring module is ready to be added to the Niko Home Control wireless network

Reset

Step	Action	LED/led	
1	 press 10 s	x 3	flashing
2			flashing

Online guide

Online handleiding

Consult **guide.niko.eu** for more information about the installation, onboarding and troubleshooting.

Specifications

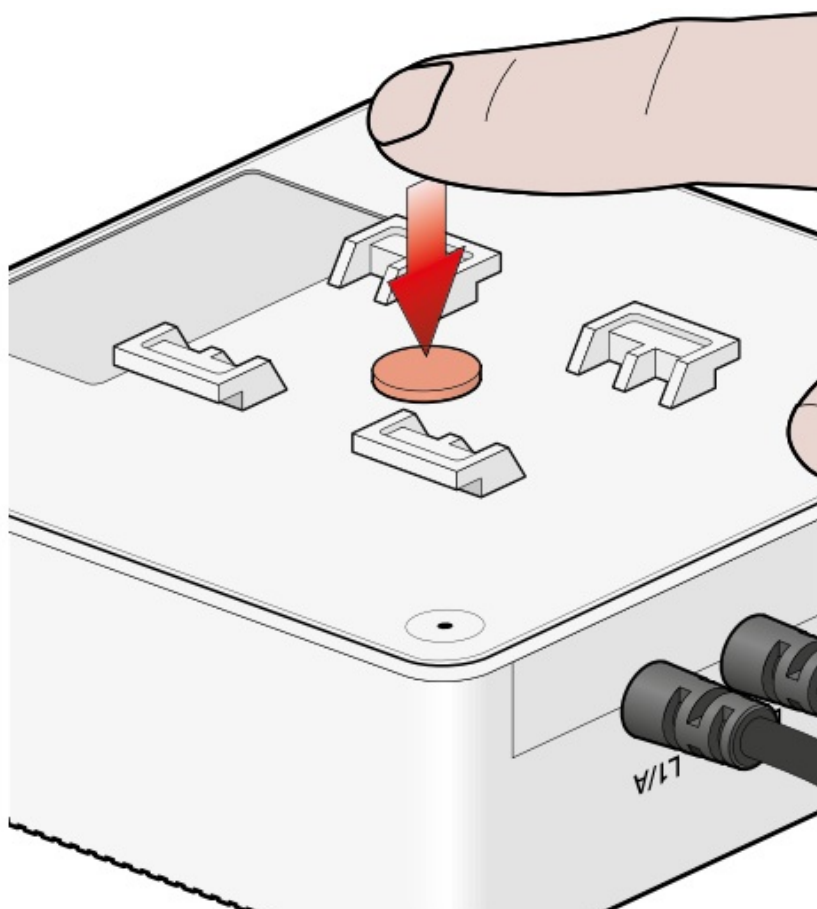**Measurement range with the current clamps supplied**: ……. 0 W – 14490 W / 0.44 A – 63 A
Circuit breaker:……………………………………………………………maximum MCB rating16 A*
Maximummeasurement range for the total measuring module:……………………3 x 14490 W
Wireless communication:..………… 2.4 GHz IEEE 802.15.4 compatible with the mesh network of
……………………………………………the wireless hub (552-00001)and wireless bridge (550-00640)
Maximum RF range: …………………………………. 10 m (mesh networking support for longer range)
Input voltage:……………………………………………………………………………………230 Vac
Radio frequency power: …………………………………………………………………..19.5 dB
Number of current clamps: ……………………………………………………………….3 (included)
Maximum cable size in clamp: .………………………………………………………..10 mm²
Accuracy: ..………………..> 100 W: IEC62053-21 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
Dimensions: …………………………………………………………….86(L) x 86(W) x 37(H) mm
Ambient temperature: ………………………………………………………………0 – 40°C
Protection degree: …………………………………………………………………………… IP20

The cables comply with the Euroclass reaction to fire classification Eca.
The MCB rating is limited by national installation rules.

⚠ **ZNot suitable for measuring direct current components**

⚠ **Measuring data for informative purposes only, not valid for invoicing**

🔧 **Warnings regarding installation**

The installation of products that will permanently be part of the electrical installation and which include dangerous voltages, should be carried out by a qualified installer and in accordance with the applicable regulations. This user manual must be presented to the user. It should be included in the electrical installation file and it should be passed on to any new owners. Additional copies are available on the Niko website or via Niko customer services

C E **CE marking**
This product complies with all of the relevant European guidelines and regulations. For radio equipment Niko llc

declares that the radio equipment in this manual conforms with the 2014/53/EU directive. The full text of the EU declaration of conformity is available at **www.niko.eu** under the product reference, if applicable

Support & contact

+32 3 778 90 80 support@niko.eu

Niko prepares its manuals with the greatest care and strives to make them as complete, correct and up to date as possible. Nevertheless, some deficiencies may subsist. Niko cannot be held responsible for this, other than within the legal limits. Please inform us of any deficiencies in the manuals by contacting Niko customer services at support**@niko.eu**

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Documents / Resources
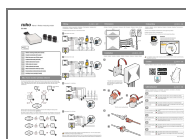
	Niko PM552-20803 Wireless Measuring Module [pdf] User Manual PM552-20803 Wireless Measuring Module, PM552-20803, Wireless Measuring Module, Measuring Module

References

- **Confluence Mobile - Niko Guide**
- **Niko - home automation, switches, socket outlets and detector**
- **Niko Home Control II programming software for Windows**
- **Niko Home Control II programming software for Mac**
- **User Manual**