



## UK Installation Manual

Version 1.02

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# Introduction

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The Smappee monitor is a device that measures the energy consumption of your electrical appliances with one sensor close to the fuse box. The sensor is clamped around the mains cable and records the energy use. The various devices are recognized by their energy signature or the electrical traces they leave. If you have solar panels, you can also use the Smappee monitor to measure the energy generated.

The Smappee monitor is installed close to the fuse box. It then starts measuring your energy consumption and the yield of your solar panels as well as communicating with your smartphone or tablet. The Smappee app gives you direct insight in your energy consumption, energy costs and the yield of your solar panels. To save on energy costs and contribute to a greener environment, you can take on energy guzzlers and standby power.

This manual describes the installation of the Smappee monitor. All information about the WiFi configuration of the Smappee monitor and the use of the Smappee app can be found in the *Smappee user manual*.

# Read before use

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## Warnings

Please observe the following safety precautions to avoid possible electric shocks, fire, or personal injury:

- Use the product only as specified as otherwise the safety of the product is not sufficient.
- Do not use the product in environments with explosive gas or vapours, nor in damp or wet environments.
- Do not use damaged power cords and cables. Check the power cords and cables for damaged insulation and exposed metal. Check the connection of the power cords.
- Use only the power cord and cables that are supplied with the product.
- Do not use the product if it is damaged.
- Repairs should only be done by authorized technicians.
- Do not open the product. There is a potential for exposure to hazardous voltage.
- Use only specified replacement parts.
- Do not connect the product to a voltage higher than 240 V.
- Turn off the main power switch before you start the installation of the product.
- Follow local and national safety regulations for installation and use of electrical equipment.

## Maintenance

- Clean only the outside with a dry, clean cloth.
- Do not use abrasive agents or solvents.

## Technical specifications

- Dimensions: 16 cm (L) x 10 cm (W) x 3,5 cm (H)
- Weight: 300 grams
- Wi-Fi 802.11 b/g/n 2.4 GHz
- Work temperature: 5°C to 40°C
- Storage temperature: -10°C to 60°C
- Relative humidity: 80%; 5°C to 40°C
- Sealing IP 20.
- Work altitude: 0 to 2.000 meters
- EMC: EN 55022 (Class B)
- Safety: EN61010-1 Ed 3.0 (2010-06), EN61010-2-032 Ed 3.0 (2012-09)
- Overvoltage category: 300 V/CAT II
- ~110/240V 50/60Hz Max 5W
- Current Clamps 50A

# Connecting the Smappee monitor

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This chapter describes how to connect the Smappee monitor to your fuse box.

There are two options for the connection:

1. [Single phase without solar panels](#)
2. [Single phase with solar panels](#)

**Attention!** Before you can connect the Smappee monitor you must first connect it to your WiFi network as described in the *Smappee user manual*.

For the connection you need:

- The Smappee monitor.
- The power cord and the current clamp(s) supplied with the monitor.

## Single-phase connection without solar panels

The following steps describe the **single-phase connection without solar panels**.

1. Locate the L wire between your electricity meter and your fuse box



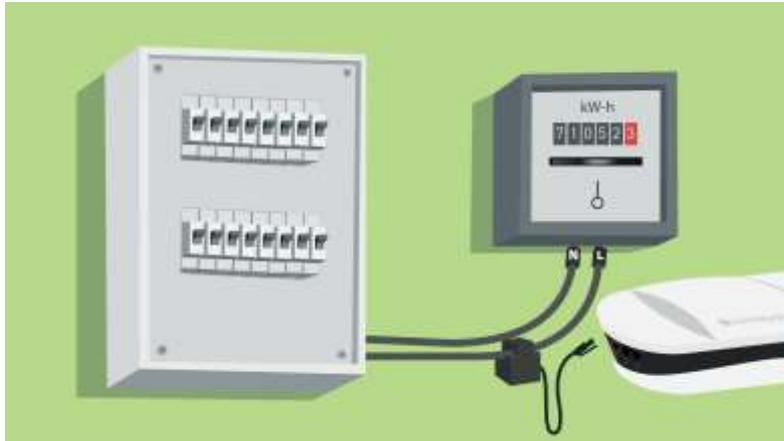
2. Then take the current clamp and check for the symbol **L ← K** in the clamp. Make sure that the arrow points in the direction of the normal current flow, from the meter to the fuse box. (**K** being closer to the meter and **L** closer to the fuse box)



3. Place the current clamp over the L cable. Make sure that you properly close the clamp by pressing your thumb on the side until you hear a click.



4. Plug the end of the clamp cable into input 1 of the Smappee monitor.



5. Plug the power cord for the monitor into the wall socket.



6. Wait until the monitor shows a green heartbeat.  
Information about the colour codes can be found in the *Smappee user manual*.

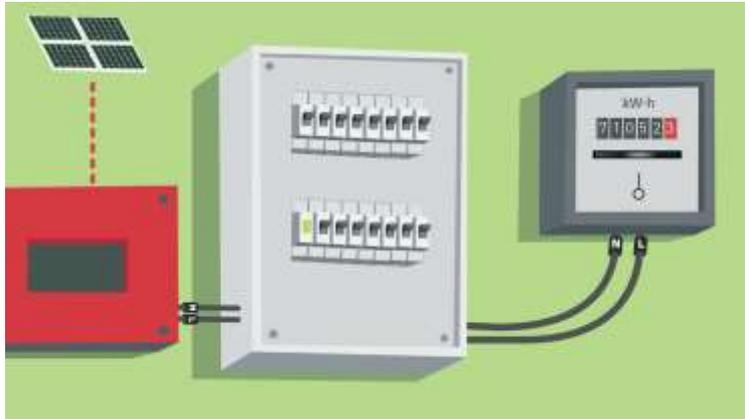


7. You can now get started with the Smappee app as described in the *Smappee user manual*.

## Single-phase connection with solar panels

The following steps describe the **single-phase connection with solar panels**.

1. Locate the L wire between your electricity meter and your fuse box



2. Then take the current clamp and check for the symbol **L ← K** in the clamp. Make sure that the arrow points in the direction of the normal current flow, from the meter to the fuse box. (**K** being closer to the meter and **L** closer to the fuse box).



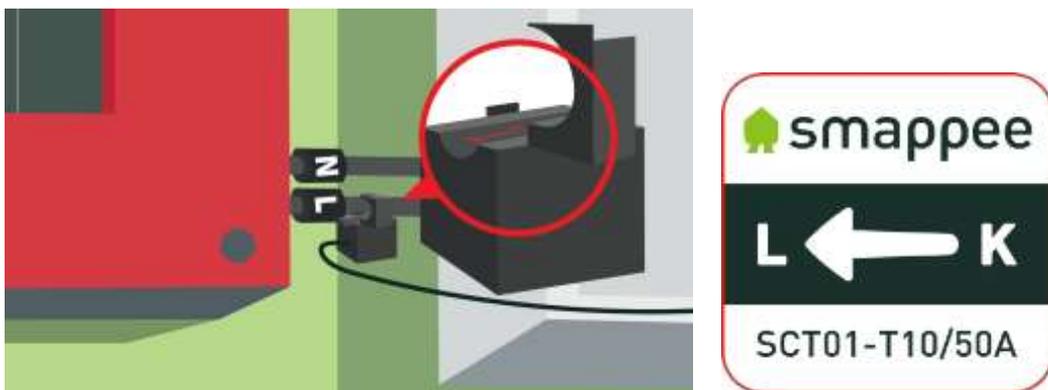
3. Place the current clamp over the L cable. Make sure that you properly close the clamp by pressing your thumb on the side until you hear a click.



4. Plug the end of the clamp cable into input 1 of the Smappee monitor.



5. Take the second current clamp and check for the symbol **L ← K** in the clamp. Make sure that the arrow points in the direction of the normal current flow, from the solar inverter to the fuse box. (**K** being closer to the inverter and **L** closer to the fuse box.)



6. Place the current clamp over the L cable deriving from the solar inverter. Make sure that you properly close the clamp by pressing your thumb on the side until you hear a click.
7. Plug the cable of the second clamp cable to input 2 of the Smappee monitor.



8. Plug the power cord for the monitor into the wall socket.



9. Wait until the monitor shows a green heartbeat.  
Information about the colour codes can be found in the Smappee user manual.



10. You can now get started with the Smappee app as described in the Smappee user manual.

# Declaration of Conformity

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October 5, 2013

We,  
Smappee nv  
Evolis 100  
8500 Kortrijk  
Belgium

following the provision of the following EC Directives:

- 2006/95/EC The Low Voltage Directive
- 2004/108/EEC The Electromagnetic Compatibility Directive
- 1999/5/EC R&TTE Directive

hereby declare that the product:  
smappee monitor-e1

is in conformity with the applicable requirements of the following documents

\* Emissions:

Radiated Emission EN 55022 (Class B)  
Conducted Emission EN 55022 (Class B)  
EN 61000-3-2  
EN 61000-3-3

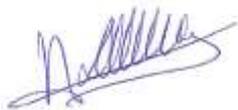
\* Immunity:

EN 55024  
EN 61000-4-2  
EN 61000-4-3  
EN 61000-4-4  
EN 61000-4-5  
EN 61000-4-6  
EN 61000-4-1

\* Safety:

EN61010-1 Ed 3.0 (2010-06),  
EN61010-2-032 Ed 3.0 (2012-09)

Authorized signatory



Hans Delabie  
Chief Operating Officer