

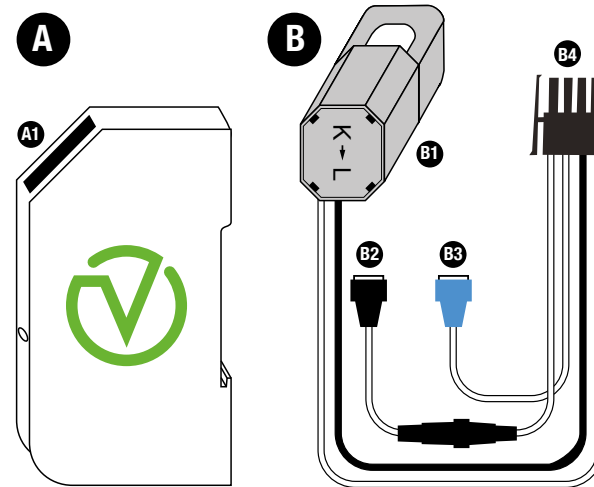
Voltaware Sensor

Installation Guide

Please visit www.voltaware.com for further installation support.

Sensor Components

Figure 1



Sensor components

- A** Transceiver
- A1** 4-pin Female Connector
- B** Voltaware Cable
- B1** Current Clamp
- B2** Live Connector Cable with magnetic probe
- B3** Neutral Connector Cable with magnetic probe
- B4** 4-pin Male Connector

Additional equipment

- A torch
- A Wi-Fi connection supporting IEEE 802.11b/g/n and Open, WEP, WPA-PSK or WPA2-PSK2 encryptions

Consumer Unit

Figure 2

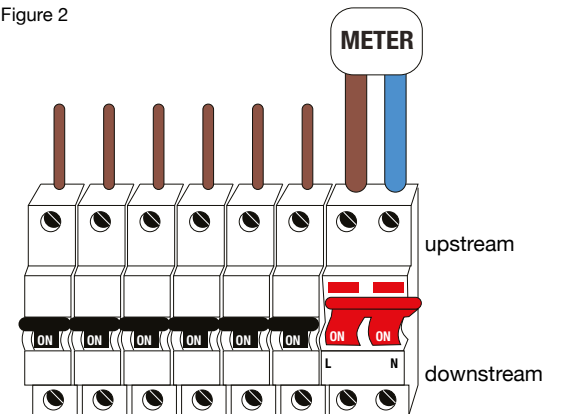
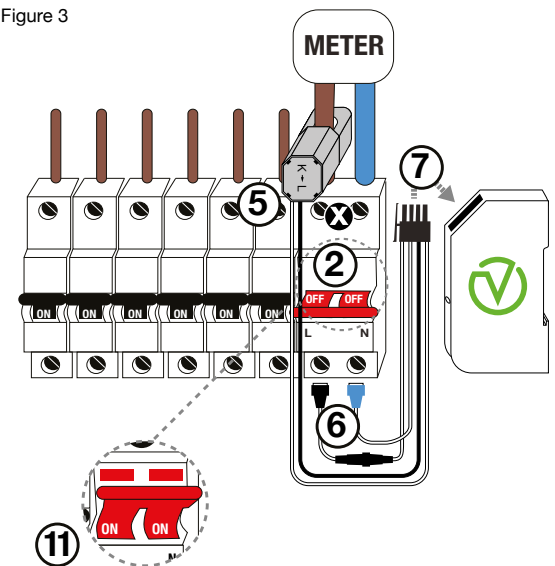


Figure 3



These numbers correspond to steps in the **Installation step-by-step guide** section.

Before you start

Warning!

- Voltages dangerous to human health are involved in the installation of the Voltaware sensor.
- A qualified electrician must install the Voltaware sensor. Voltaware will not be held responsible for failure to follow these guidelines.
- Installation must comply with electrical standards and approved codes of practice for the country or region where the installation is taking place.

Installation step-by-step guide:

Please refer to Figure 3 for steps 2 to 11. Consumer units can vary considerably, please note there may be differences between the consumer unit you are working on and the example presented in this guide.

IMPORTANT

Before installation, please make sure you have read through the entire installation guide and understood the instructions.

Caution!

Do not install the sensor if the power supply is not compatible with the sensor. Power supply must be 230V / 50Hz electricity supply, as is standard in the UK.

Warning!

The two bolts directly beneath the live and neutral cables on the consumer unit are often upstream of the mains power switch (marked 'x' on Figure 3). This means they are not switched off when you switch off the mains. DO NOT ATTEMPT TO INSTALL THE LIVE AND NEUTRAL CONNECTOR CABLES ON THESE BOLTS. Always install the connector cables downstream of the main circuit breaker; always inactive here if the main circuit breaker is switched off.

Please note:

The live and neutral connector cables of the device shall connect on to the live and neutral bolts respectively, assuming they are within reach of the cables. These cables are used to power the sensor with the exception of the upstream bolts specified in the warning above.

- 1 Turn on your torch. Voltaware recommends you free your hands by placing the torch where it can illuminate the consumer unit.
- 2 Switch off the electricity mains completely on the consumer unit.
- 3 Remove the cover from the consumer unit to have full access to the wiring.
- 4 If connected, separate the Voltaware transceiver from the cables by releasing the 4-pin connector.
- 5 Visually check that the ferrite core of the current clamp is not damaged*. Taking the cables only, attach the current clamp around the upstream live cable which feeds into the main circuit breaker, with the SOURCE (marked 'K') pointing in the direction of the supply. The current clamp is contactless and its installation must not require actions other than closing and locking the clamp around the live cable.
*If the clamp is damaged the sensor is not fit for installation.
- 6 Visually identify a live and neutral bolt downstream of the main switch, on a part of the board that is not powered. Connect the magnetic probe of the black live connector cable, fitted with a fuse in the middle, to the identified live bolt. Then connect the magnetic probe of the blue neutral connector cable to the identified neutral bolt. It is important to connect these the correct way round.
- 7 Plug the 4-pin male connector into the 4-pin female connector on the transceiver.
- 8 Clip the transceiver onto the end of the DIN rail.
- 9 Visually check over the installation to ensure the sensor has been installed correctly.
- 10 Please re-fix the consumer unit cover now.
- 11 Switch the electricity mains back on, on the consumer unit. You can tell if the sensor is powered if you hear a faint buzzing sound.

Connecting to the local network

Follow the steps below to connect your sensor to your Wi-Fi network.

- 12 On your PC or connected mobile device, do a Wi-Fi scan for the network: VOLTAWARE_XXXX_YYMMDD (where 'XXXX' represents the Sensor ID and YYMMDD represents a date). You should have been provided your Sensor ID by Voltaware.
- 13 Select this network and login with the password: byttwm2015
- 14 Open an internet browser and enter the IP address 192.168.10.1 in the search bar. Press enter;
- 15 The Voltaware 'Provisioning' webpage will appear.
- 16 Select the local Wi-Fi network and enter the Wi-Fi password.
- 17 On successful completion of these steps, the sensor will proceed to connect to the selected Wi-Fi network.

Support

Additional support is available on the Voltaware website. To speak to a member of our technical team you can contact us on enquiries@voltaware.com.

Additional Information

Electrical Characteristics:

- Sensor:
 - Compatible with 230V / 50Hz electricity supply, as is standard in the UK.
 - Power consumption: 1.5W

Warning!

- Follow all warning and caution labels provided in this pamphlet to ensure your own safety.
- You should never, under any circumstances, install or allow your Voltaware sensor to be installed with the mains electricity switched on. There is a risk of explosion, fire and electrocution if this is ignored. Voltaware will not be held responsible for failure to follow these guidelines.
- Do not tamper with the installation of the sensor while the mains electricity is switched on.
- Never attempt to disassemble and reassemble the sensor. Doing so will void your sensor's warranty.
- Do not dispose of in fire.
- Do not allow the sensor to get wet/ handle near water.
- Do not leave the sensor in a moist environment or in direct sunlight.
- Do not allow children to play with the sensor or let them anywhere near the consumer unit.

For more information please visit our website at www.voltaware.com

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