

Trio II P1

Quick start guide

Welcome to your Trio II P1.

Now let's start saving money

Introduction

The **Trio II** shows energy use for electricity and gas smart meters and is designed to work with your smart meters. The **Trio II** is also capable of supporting solar PV connected to your electricity smart meter.

The transmitter

Overview

Transmitter

The transmitter is meter powered and sends the energy measured by the sensor wirelessly to the **Trio II** and the internet, if WiFi® is fitted.

Your pack will come with the transmitter and the P1 sensor cable.



P1 sensor cable

The P1 sensor cable connects the transmitter to your smart meter (using the P1 port on the meter). This provides energy consumption data and power to the transmitter.

The cable is simple to install and does not require access to any cables connected to the meter.

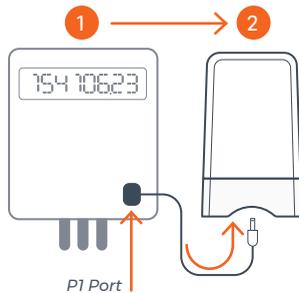


*A metal meter cabinet may affect communication between the transmitter and the **Trio II**.*

Connecting the P1 sensor cable

Your meter has a connection that is used to send energy consumption data electronically to the transmitter.

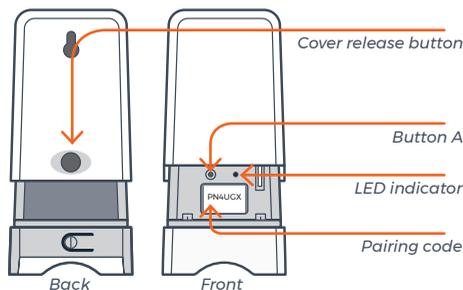
- Find the P1 output port on the meter.
- Insert the RJ12 connector leading from the transmitter into the P1 output.



Activating the transmitter

Your transmitter should activate as soon as it is powered.

- Slide open the transmitter by pressing the release button on the back and pulling upwards.
- The LED will be on, or flashing to indicate the transmitter is powered.



Pairing

Follow these instructions if you wish **pair** or **re-pair** the meter transmitter to your **Trio II**:

- (1) If your meter transmitter isn't already connected, please connect it now.
- (2) Turn on your **Trio II**, and follow the Settings Wizard. The screen will say 'Not commissioned'
- (3) Select the Meter transmitter menu on the **Trio II** (**Settings** > **Advanced** > **Meter transmitter**).
- (4) Select **Unpair** on your **Trio II** (if it is not greyed out).
- (5) Now disconnect and reconnect your meter transmitter once more to reactivate the pairing mode.
- (6) Please select **Pair** on your **Trio II**.
- (7) On the **Trio II**, enter the pairing code found on the inside of the meter transmitter (for example PN4UGX), then select **Enter**.
- (8) The LED should start flashing slowly and then quickly to indicate it is in pairing mode.
If the LED is on but not flashing press button A for 3 seconds to start pairing mode.
- (9) Once successfully paired, the LED will be on (not flashing), and the **Trio II** status will change to connected, and the meter status in the menu bar will show the signal strength (📶)*
- (10) Re-run the Settings wizard (**Settings** > **Advanced** > **Settings wizard**). You should now see the Home screen with electricity and gas, if you have both smart meters.

* If pairing fails please ensure you have entered the pairing code correctly and return to step 4.

Note: If you need to replace the meter transmitter, unplug the old one, and start this process from step 3.

The display

Setting up

Connecting the power supply

Connect the power supply to your **Trio II**. Your energy display will turn on automatically when you plug it into the mains. You should always leave your display connected to the power supply.

You can configure the screen brightness of the display, or switch the display on/off at certain times of the day. (See **Settings > Display**)

The power supply has been made exclusively for the Trio II energy display and must not be used with other devices.

Using batteries

Your energy display can optionally be used with 3 x AAA (R03, LR03) non-rechargeable batteries.

Remove the back cover and insert the batteries, as marked on the inside case. Re-attach the back cover and the display will show the battery symbol () at the top of the screen.

It's advisable to power the display with the supplied power supply, and not to use batteries for a prolonged period.

Smart meter connection

Each time the display is turned on it will show **Connecting to smart meter...** while establishing connection. This could take a few minutes depending upon the meter.

Menu

The main menu is available from the home screen. Select it by touching the **Menu** symbol () on the top left of the screen.

Electricity / Gas usage

Detailed information on the electricity and gas consumption for today and recent days, weeks and months.

These screens are also available by touching the associated numbers on the **Home** screen or via the **Quick Access** menu.

Tariffs

Displays information on your electricity and gas tariffs.

Meters

Information on your electricity or gas meter and the current meter readings.

Settings

Under the settings menu are several areas including setting budgets, display and sound alerts, and WiFi® (if installed).

System Status

The system status screen allows you find out more information on the health of your system.

Settings Wizard

When the **Trio II** is first turned on, you will be guided through setting up several things including - your country, if you have solar PV installed, tariff pricing and any network charges.

The settings wizard can be found under **Settings > Advanced > Settings wizard**

Overview of the energy display and the Home screen

The screen on the **Trio II** display is touch-sensitive - you only need to lightly touch it to interact with the screens.

In the top left of the screen, touching the  button will show the **Menu** screen and on other screens  will take you back to the previous screen.

The illuminated button on the top of the display shows your electricity usage (GREEN for low, AMBER for medium or RED for high).

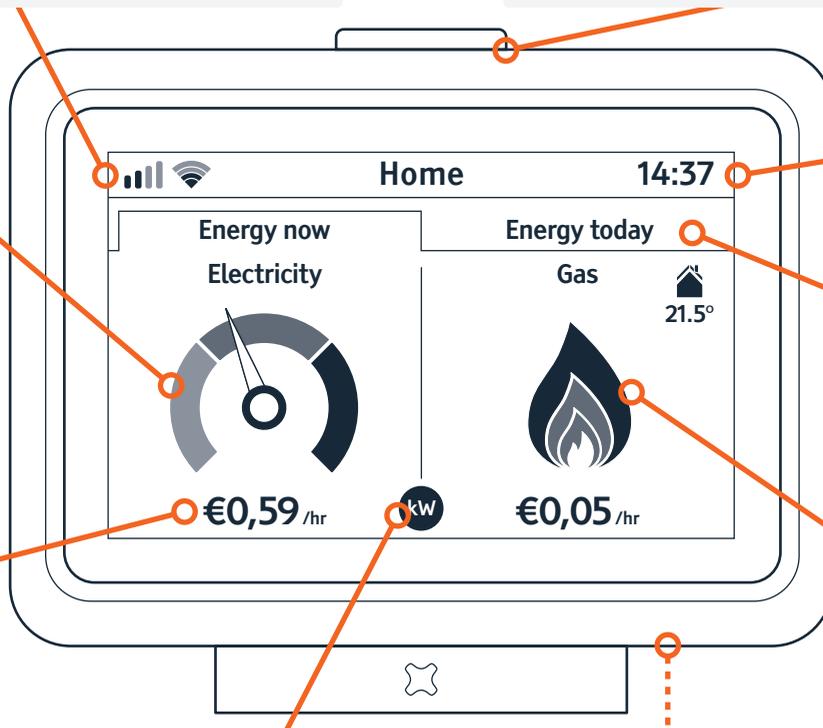
Push it to access the **Quick Access** screen or to return to the **Home** screen when you are on any other screen.

The left of the screen shows the current rate of electricity import. As appliances and lights are switched on and off, the dial needle will move.

Touch the dial or flame to go to the **History** screen.

The rate of consumption is shown in cost per hour or, if kW is selected, then kW for electricity and m³/hr for gas.

If you have a solar PV system installed then please refer to the **settings wizard** section on the previous page.



The title of the screen shown and the current time.

Touch to change to **Now**, or **Today**.

The flame shows the recent rate of gas consumption (last 5 mins, or hour, depending on your meter).

Touch the flame to view the **History** screen.

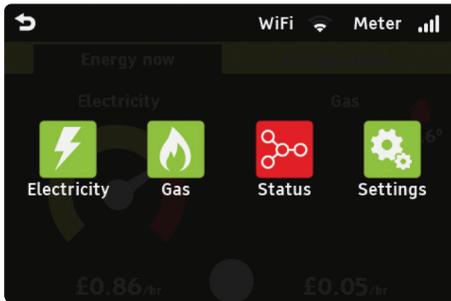
House temperature is shown in the corner (see **Settings** to edit the set point).

Touch the **€** or **kW** button to switch between showing cost or energy consumption.

Connect the power supply to the socket on the rear of the display (on the left when looking at the back).
Only use the power supply that came with the **Trio II**.

Quick Access screen

To access this screen, press the button on the top of the **Trio II** when you are on the **Home** screen. To return to the home screen, press the button again.



Electricity/ Gas

The ⚡ and 🔥 icons will be shown, depending on your display's configuration. Touching the icons will show either the **Electricity history** or **Gas history** screens.

Status

Touch the status icon (🌀) to see the **System Status** screen to find out more information on the health of your system.

The overall health of the system is shown by the 🌀 icon. The colour of the background is a quick indicator of whether the system is working OK (GREEN) or whether there is something that needs your attention (RED).

Settings

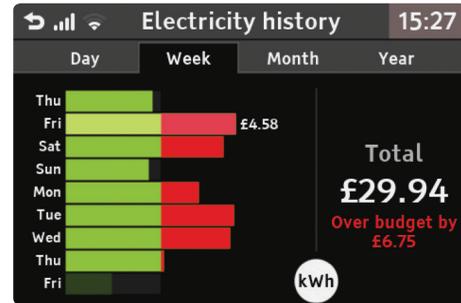
Touch the settings icon (⚙️) to go directly to the **Settings** for your energy display.

Meter / Wi-Fi

The **Meter** and **Wi-Fi** (shown when optional Wi-Fi module is fitted) icons show the signal strength between your display and your smart meter(s) or your home Wi-Fi network.

Electricity & Gas

You can see more about your energy consumption (both electricity and gas) by touching the dial or flame areas of the **Home** screen, selecting an option from the **Menu** or using the **Quick Access** screen.



Day

The first screen shows your hourly energy use for today. You can see this in terms of energy (kWh) or cost (€) - touch the **kWh** or **€** button to change between them.

The row that is shown in a lighter green is the hour during which most energy was consumed, with the total to the right. You can move your finger up and down the rows to show the consumption for a particular hour period.

Press the ↻ button to switch between **Today** and **Yesterday**.

Week, Month and Year

These screens show your recent energy use over the past 9 days, 6 weeks or 14 months, with today at the bottom. Touch any row for the total for that period.

If a budget has been set (see **Settings > Budget**), then performance against a budget is shown.

FAQs

My display isn't showing any information

If your display shows **Waiting for data**, this could be because your display is out of range and is not able to communicate with the smart meter. Try moving your display closer to the smart meter.

You can check your signal strength by pressing the top button while on the home screen. This will show the signal strength to the meter in the top right (**Meter**) and a system status icon (📶) in the middle of the screen.

If problems persist, please contact your supplier.

System Status shows a Wi-Fi error

The Wi-Fi module is an option on the **Trio II** and may have been supplied by your utility provider or network operator.

When the **System Status** screen shows the Wi-Fi symbol (📶) in red or amber, then this means one of the following:

- The display is out of range of the Wi-Fi network or it is not available - try moving closer to the access point or router.
- The security details for the configured Wi-Fi network have changed since they were setup.
- The display's details have been actively blocked by the Wi-Fi network.
- The display is running on batteries - the WiFi module does not function when running on batteries.

System Status shows a Cloud error

The Cloud service is only available if your **Trio II** has the optional Wi-Fi module fitted.

When the **System Status** screen shows the Cloud symbol (☁) in red, then this means one of the following:

- Your Cloud account has not been configured.

- The display is unable to access the Cloud service - check your home broadband connection.
- The Cloud service is temporarily offline.

My display is blank or has switched itself off

The display backlight may have turned itself off to save power, press the top button or touch the screen to switch it back on. This setting can be changed under the **Settings**.

If you are using batteries to power the display the batteries may have gone flat. The battery icon (🔋) will be shown when operating on battery power. The running time is 4 hours. Reconnect to the mains adaptor or replace the batteries.

We recommend that the display is powered continuously using the power supply provided.

I have solar PV, but I am not seeing an export electricity dial on my display

By default solar PV is turned off. To turn it on use the Settings wizard, (**Settings** > **Advanced** > **Settings wizard**)

When you are generating more electricity than you importing, this will show as an export on your display.

How to I change my tariffs?

Your tariffs can be changed via the Settings wizard (**Settings** > **Advanced** > **Settings wizard**)

I have been sent a new meter transmitter, how do I connect it to my Trio II?

You can pair a new transmitter in the Meter transmitter page (**Settings** > **Advanced** > **Meter transmitter**)

Further information

This guide is designed to introduce you to the **Trio II**. In it you'll find some basic information about the key features and functionality.

Further information on the **Trio II** is available online at www.geotogether.com/support/products/trio-ii

Technical specifications

These products are intended to be used indoors in a domestic environment. They are not suitable for outdoor use.

Trio II

Supply voltage	240Vac, 50Hz
Operating voltage	5Vdc
Operating power	< 0.6W
Operating temperature	0 to 40°C
Operating humidity	0 to 85% non-condensing

Transmitter

Supply voltage	5Vdc
Operating temperature	+5 to +40°C
Operating humidity	0 to 85% RH non-condensing

Safety notice

Please be aware of these simple safety precautions when using these products. Safe operation may be hindered if used in a way that is not specified by the manufacturer.



Keep products away from water and other liquids. Disconnect from the mains power supply before cleaning (with a soft, dry cloth only). Please contact your supplier if any components appear damaged or faulty.



Your products are designed to be used in an indoor, domestic environment only.



To protect the environment, these products and their batteries must be disposed of safely at the end of their life.



These products are CE approved.



These products comply with RoHS regulations.



The meter transmitter is double insulated.

Manufacturer

Designed and manufactured by:

Green Energy Options Ltd.
3 St. Mary's Court, Main Street, Hardwick, Cambridge
CB23 7QS, UK

Hereby, Green Energy Options Ltd. (UK) declares that the radio equipment enclosed (identified by the product type numbers on the product label) are in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available online at <http://www.geotogether.com/EUDoC>.

www.geotogether.com

For any help or support please contact your supplier



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