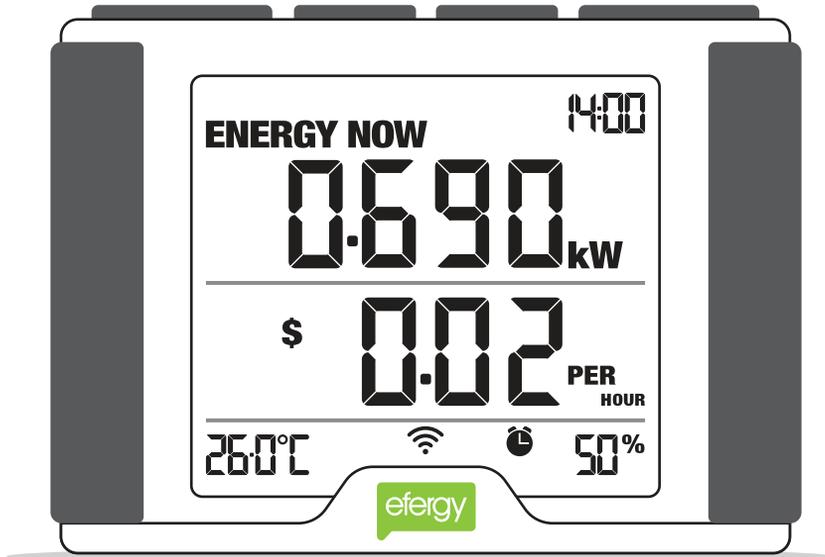


# Efergy Elite Classic

FW No. 4.0



# CONTENT

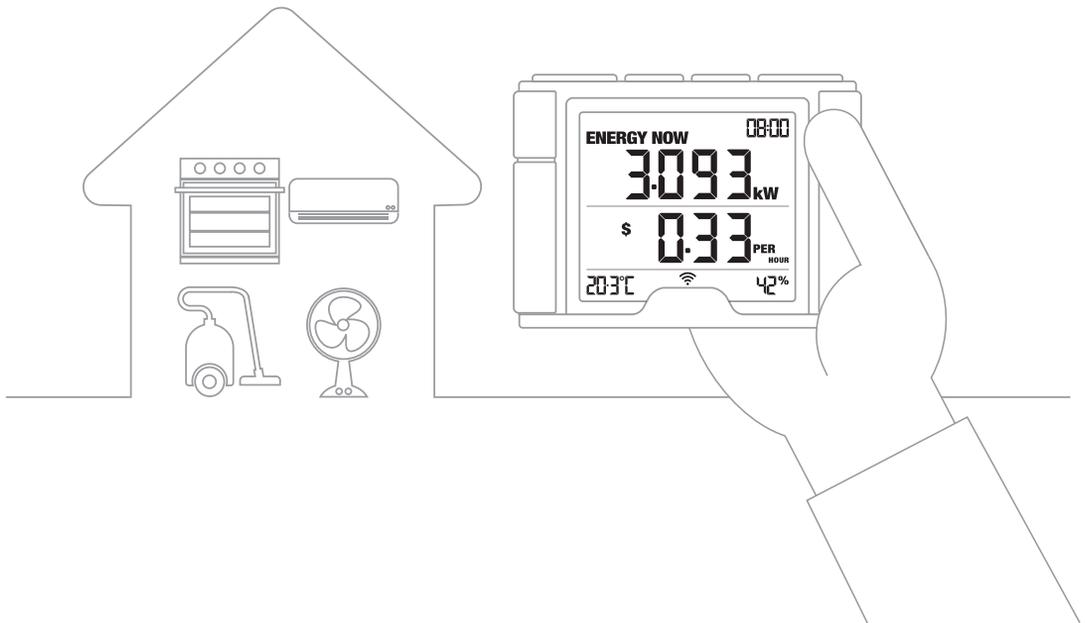
INTRODUCTION	2
HOW IT WORKS	3
SAFETY INFORMATION	4
HARDWARE INSTALLATION	6
1. Find the main feed wires	7
2. Install the sensor(s) and transmitter	9
3. Link the transmitter and monitor	10
MONITOR SETUP	11
Setting time and date	12
Voltage	12
Currency	13
Tariff period	13
Tariff pricing	13
Carbon emissions ration	14
Maximum power alert	14
Temperature	14
Multiple tariff	15
GET FAMILIAR WITH THE DISPLAY	16
TECHNICAL DETAILS	19
CUSTOMER SUPPORT	20

# INTRODUCTION

Energy metering and monitoring are at the heart of energy management, understanding when and where your energy is consumed is key to saving money.

**Efergy Energy Meters** show the amount of energy that a household is consuming at the time the display is read. The display can also give the user a reading showing usage in financial terms.

You can walk around the home with your monitor device, switching appliances on and off, to see the difference that each one makes. With a few small changes in your consumption behaviour the monitor can help you reduce your energy costs.



# HOW IT WORKS

Our Wireless Energy Meters are simple to install and use. A CT sensor is clipped onto the live feed cable of your breaker panel. A lead from the sensor is connected to the Eergy Transmitter. This Transmitter wirelessly sends real-time data to the Energy Display.





## SAFETY INFORMATION



**WARNING!** Your electric panel contains energized parts. This device must be installed by a qualified electrician, unless otherwise permitted by local regulations.

It is important that you take some simple precautions before using this product. Incorrect use or poor safety practices can result in injury or fatality. Whenever possible, turn off the main breaker outside your home feeding power to your electricity panel.

When installing the Efergy Energy Meter you should find that everything is straight-forward. However, there are a number of important health and safety issues which you need to be aware of:

-  The current sensors clip onto the supply cables inside the main electrical panel, which delivers power to your home.
  
-  Do not touch any metallic connections during the installation of the sensors. Do not carry out this installation if under the influence of alcohol or drugs.
  
-  Remember the device is not intrusive and does not require rewiring; no wires or cables need to be cut, removed or modified to perform this installation. If you notice anything unusual about the electricity supply such as loose wires, exposed cabling, burn marks, holes in the insulating materials or damage to the electric wires in the service panel or where the sensor is to be attached, stop immediately and report the findings to your supply company.

⚠ Energy monitoring systems are considered plug and play devices that meet all regulatory requirements for installation in the United States and Canada.

⚠ Do not force or bend the cables at any point during installation. If you are worried or have any concerns about the installation, please contact a qualified electrician immediately.

⚠ The user does not need to remove the sensor throughout the working life of the unit. Battery changes are performed on the transmitter and on the display. There are no batteries to change in the sensor.

⚠ Even with the main breaker in the off position, the connection lugs where the main wires terminate at the main breaker may still be live with potentially lethal voltage. Stay clear of these connections during the installation of the sensors.

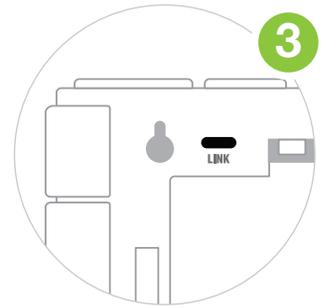
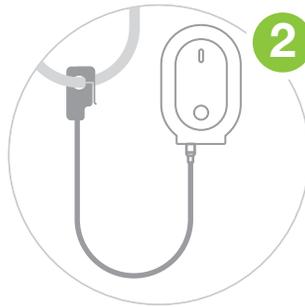
⚠ The sensors are insulated so do not be concerned if they slide down the main wires to the breaker after being secured around the insulated wires. A plastic tie wrap (with 5cm of the tie not cut off) secured to the main wire under the desired location for each sensor may be used to keep them from sliding down the wires.

⚠ Millions of these systems have been installed world wide without incident but please follow safe working practices as outlined during the installation.

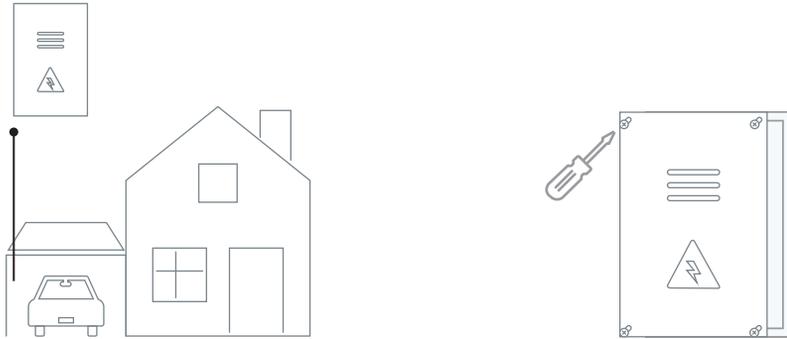


## HARDWARE INSTALLATION

The first thing you should do is unpack your Efergy Energy Monitor. Install the CT Sensor clamp into your power meter fuse box. There are a couple of options here, you can install the clamp either onto your incoming mains cable, this will check you overall power, or onto a separate individual circuit like a hot tub, air conditioner or solar systems circuit to measure individual power for an appliance or solar feed in.



# 1. Find the Main Feed Wires



You can normally find your main electrical panel inside your home on the other side of the wall from your electric utility meter. You may also follow the conduit from your utility meter. In many cases it is located in the garage, utility room, laundry room or hallway inside your home. If you live in an apartment, it may be in the kitchen, a utility closet or hallway.

Remove the outside cover from your electrical panel and locate the main feed wires. You should find up to four feed wires entering your main electrical panel: two black wires, one white wire and one green wire (there may not always be a green or bare ground wire). The two black wires (or sometimes one black and one red) are the live wires feeding the panel, these are the wires used to measure the power being used in your home or business.

**ALWAYS SHUT DOWN THE POWER TO YOUR ELECTRICAL PANEL FIRST AND PROCEED WITH CAUTION!**

For example, if you have a single tariff meter you should find four cables exiting the meter (see Diagram A). The feed cable is the live cable exiting from the meter to the fuse box or main switch. Clip the Sensor to Cable 4.

Diagram A

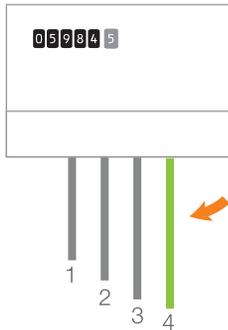


Diagram B

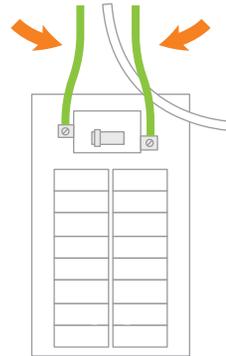


Diagram C

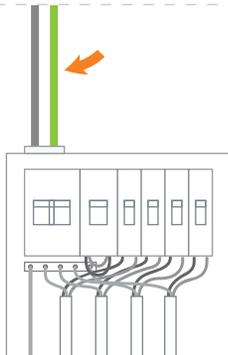
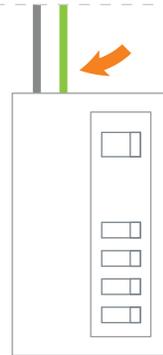
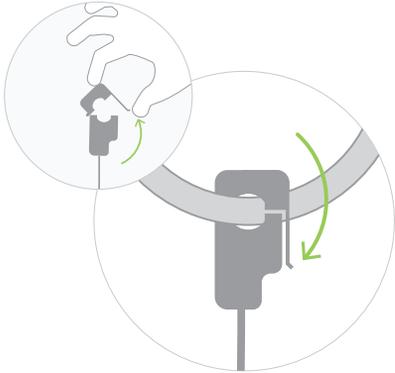


Diagram D



## 2. Install the sensor(s) and transmitter

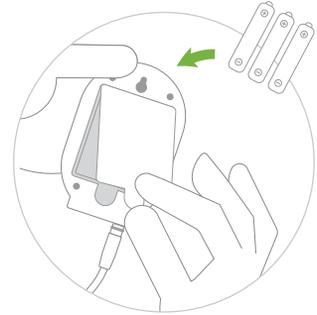
---



Place the sensors around the feed wires of your electric panel. Pull the clasp to open the sensor, place it around the feed cable and push the clasp to shut.



Insert the sensors jack into the base of the transmitter. Make sure you insert the sensor(s) jack first, then power on the Transmitter.



Open the Transmitter case and insert three AA batteries (not provided). Mount the transmitter on the wall next to or above the electric panel.

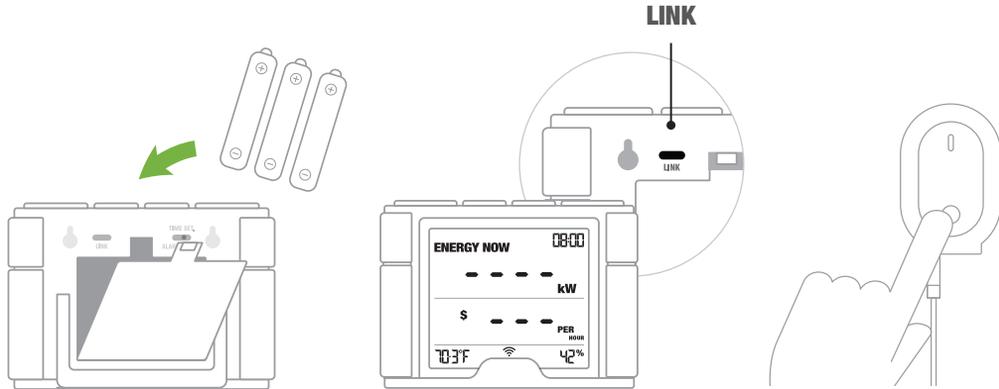


EFERGY RECOMMENDS THAT INSTALLATION IS CARRIED OUT BY A QUALIFIED ELECTRICIAN

ⓘ Efergy recommends high quality alkaline or lithium batteries for the best product performance. Battery life will depend on environment (up to 12 months).

### 3. Link the transmitter and monitor

---



Insert 3 AA batteries into the battery compartment located on the back of the monitor (make sure you match the negative and positive ends of the batteries with the markings inside).

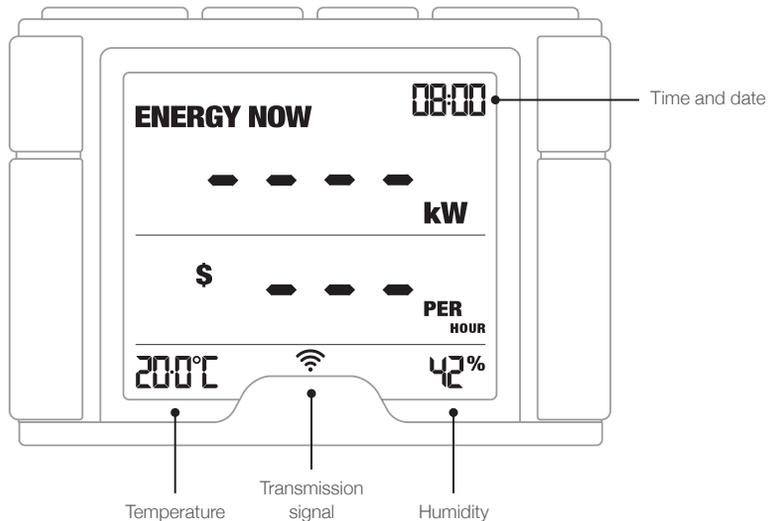
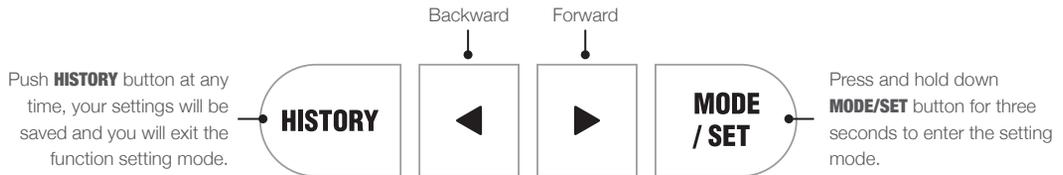
Press the **LINK** button on the back of the monitor and hold for two seconds. The transmission signal symbol  will flash for one minute or until the transmitter and monitor are linked.

While the transmission signal symbol  in the display flashes, push the button on the transmitter and wait until the transmission signal symbol becomes solid.



# MONITOR SET UP

The monitor needs to know the time, date, unit cost per kWh charged by your electricity supplier, along with voltage and alarm settings. The following steps will move through each of these settings.

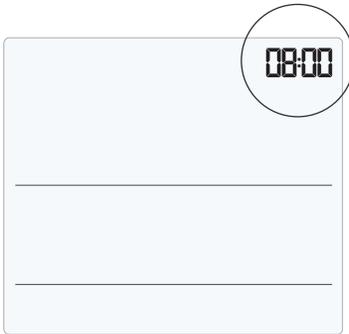
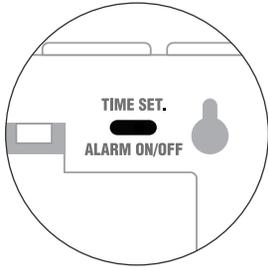


## Setting time and date

Press and hold for 2 seconds the **TIME SET.** button located on the reverse of the monitor. The time setup will flash on the display.

Use the **BACKWARD** ◀ and **FORWARD** ▶ buttons to set the hour. Press the **MODE/SET** button once to save. Repeat the same process to set the minutes. Once the correct time and date have been set, push the **MODE/SET** button to save and move onto the date setup.

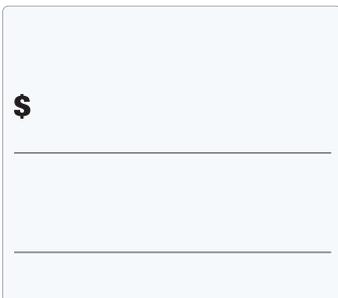
Set the month by using the **BACKWARD** ◀ and **FORWARD** ▶ buttons. Press the **MODE/SET** and move onto the day and year. Repeat the same process and then press the **MODE/SET** button to save and exit.



## Voltage

Press and hold the **MODE/SET** button for 2 seconds. Adjust the voltage using the **BACKWARD** ◀ and **FORWARD** ▶ buttons. Push **MODE/SET** button to confirm and to move onto currency selection set up.



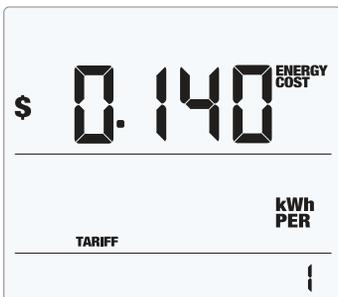


## 💰 Currency

There are 5 different world currencies available (£, €, \$, Kr, R). Press and hold the **MODE/SET** button for 2 seconds. Select the currency using the **BACKWARD ◀** and **FORWARD ▶** buttons. Default currency will be **\$**. Push **MODE/SET** button to confirm and to move onto tariff selection set up.

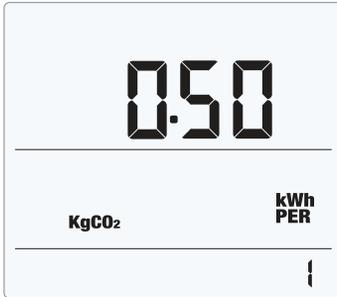
## 📅 Tariff period

Select up to 4 different tariff cost settings. You will note that the words **TARIFF 1** will appear. The **1** represents the tariff selected. Use the **BACKWARD ◀** and **FORWARD ▶** buttons to choose between tariff periods, then press the **MODE/SET** button to confirm and will move to set tariff pricing.



## 📊 Tariff pricing

On completing the above, pricing will appear next. Use the **BACKWARD ◀** and **FORWARD ▶** buttons to increase or decrease the cost and press the **MODE/SET** button to confirm. You have now completed your manual tariff programming. Press **MODE/SET** button to move onto the set-up for **CARBON EMISSIONS RATIO, ALARM, and TEMPERATURE**.

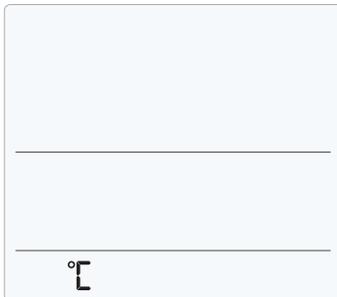
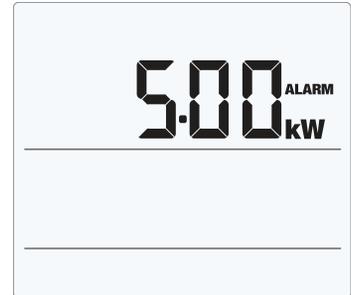


## Carbon emissions ratio

By default the carbon emissions ratio is 0.50 KgCO<sub>2</sub>. Use the **BACKWARD** ◀ and **FORWARD** ▶ buttons to increase or decrease the value and press the **MODE/SET** button to confirm. Press **MODE/SET** button to move onto the set-up for **ALARM**.

## Maximum power alert

The audio alert will sound if you go over your set maximum power consumption target. Use the **BACKWARD** ◀ and **FORWARD** ▶ buttons to increase or decrease the value and press the **MODE/SET** button to confirm. Press **MODE/SET** button to move onto the set-up for **TEMPERATURE**.



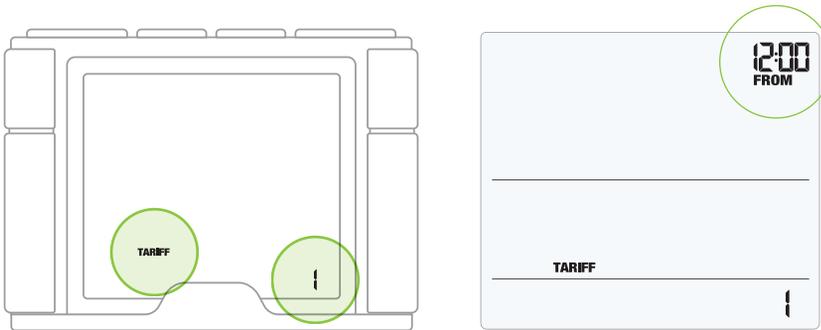
## Temperature

Use the **BACKWARD** ◀ and **FORWARD** ▶ buttons to move between different temperature scales (Celsius and Fahrenheit) and press the **MODE/SET** button to confirm. You have now completed your Energy Display set up. Press **MODE/SET** button to move onto **ENERGY NOW**.

## Multiple tariff

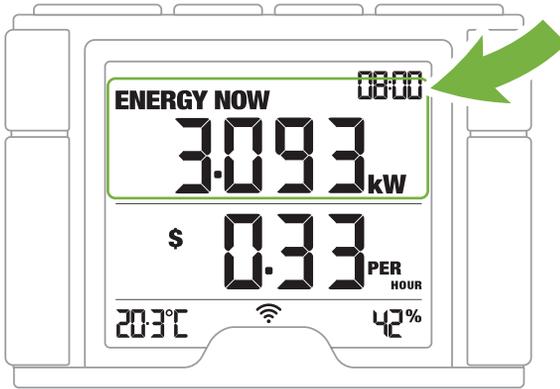
You will only need to use this setting if you have dual or multiple tariffs

Press and hold the **MODE/SET** button for 2 seconds. Press the **MODE/SET** button two more times to find the tariff mode. Use the **BACKWARD ◀** and **FORWARD ▶** to choose between tariff periods **1**, **2**, **3** or **4**. Press the **MODE/SET** button to confirm and will move to set the start and end of the tariff period. Use the **BACKWARD ◀** and **FORWARD ▶** buttons to set the start time for tariff. Press the **MODE/SET** button to set the end of the tariff using the **BACKWARD ◀** and **FORWARD ▶** buttons again. Press the **MODE/SET** button to finish. Repeat this process to configure each tariff period.





## GET FAMILIAR WITH THE DISPLAY



### ENERGY NOW

The home screen of the display is the **ENERGY NOW**, it displays accurate energy (KW) usage in real-time. Push the **MODE/SET** button to change information displayed from **KW** to cost (displayed in \$). The lower part of the screen shows the estimated cost and carbon emissions per hour.



When your monitor is in the **ENERGY NOW** mode, this **PEAK** symbol appears when the most expensive tariff is in use.



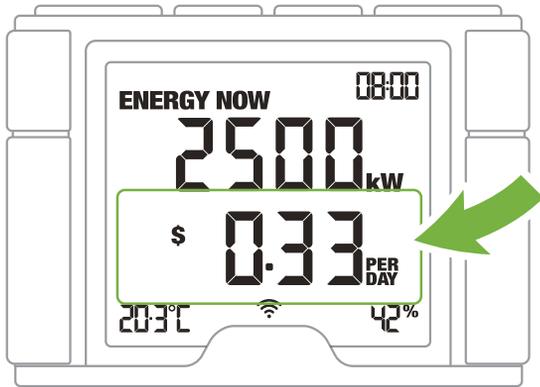
The alarm icon appears when your **ENERGY NOW** alarm is enabled.



This icon displays the amount of power left within the display's battery cells.



This icon displays the amount of power left within the transmitter's battery cells.

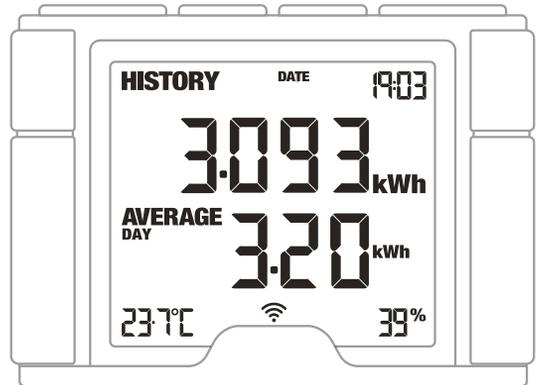


## AVERAGE

The **AVERAGE** information is always visible, and is displayed in the bottom half of the screen. The information shown in this mode is the average calculated since the monitor was switched on for the first time.

## HISTORY

The **HISTORY** mode displays the historical consumption information for days, weeks and months in kWh, \$ and KgCO<sub>2</sub>. The lower part of the screen shows the average information in days, weeks, or months in kWh, \$ and KgCO<sub>2</sub>.



Push the **HISTORY** button to access daily, weekly, and monthly stored data. Use the **BACKWARD** ◀ and **FORWARD** ▶ buttons to scroll between dates and compare consumption data. Press the **MODE/SET** button to change information from kWh to costs and Co<sub>2</sub> emissions.



## Monitor

Walk around your home and switch appliances on and off. You'll see the monitor reading increase when you switch on a new appliance.



## Understand

Understand your home energy consumption, how much energy you're using and which appliances are costing you most.



## Save money

Use the real-time, average and historic consumption information to help you change habits and make cost-cutting decisions.



## Reduce Footprint

Everyone has a responsibility to reduce their individual carbon footprint, and energy saving is a way to do so.



## TECHNICAL DETAILS

Model:	ELITE 4.0
Frequency:	433.5MHz
Transmission time:	10s
Transmission range:	130-230ft (40-70m)
Working voltage range:	120/240V 60Hz
Measuring current:	50mA - 120A nominal (200A Max.)
Carbon ratio:	0.50 kgCO <sub>2</sub> /kWh

Designed in the UK / Made in the PRC

Certifications:





## CUSTOMER SUPPORT

If you have any questions about using your monitor or if you'd like further advice on monitoring electricity at home, please feel free to contact us or visit the website for up-to-date information, downloads and frequently asked questions.



Website: [www.fergy.com](http://www.fergy.com)



Support site: [www.fergy.com/support](http://www.fergy.com/support)



Technical support: [customercare@fergy.com](mailto:customercare@fergy.com)



Sales: [sales@fergy.com](mailto:sales@fergy.com)



[www.efergy.com](http://www.efergy.com)