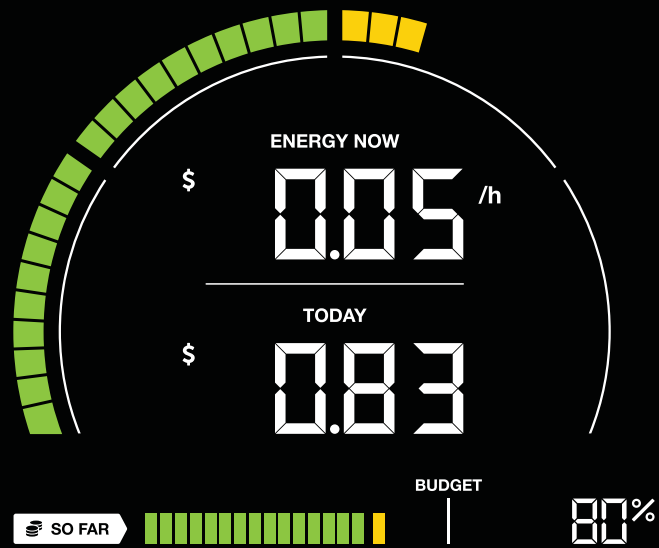


# Efergy E-Max

Quick start guide

efergy®



FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help. Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



## Want to see how it's done?



¿Prefieres el manual en español?  
Escanea el código QR o visita  
**[es.efergy.com/emax-guide](https://es.efergy.com/emax-guide)**



Want to download the manual?  
Scan the QR or visit  
**[efergy.com/emax-guide](https://efergy.com/emax-guide)**

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### In the box

The E-max energy monitor contains :

- 1 x E-Max energy display
- 1 x DC/USB cable  
(USB power adaptor not include)
- 1 x E-Max Transmitter
- 1 x CT-120-16 sensor  
(2 CTs for 120/240v , or 3 CTs for 3 phase)

## Key features



### 7.9 " Display

7.9" high quality colour display with touch buttons



### Energy now

See your current energy use with a colour-coded speedometer



### Historical Usage

Historic data today/yesterday. this/last week. this/last month



### Always On & Peak Usage

See what your home is consuming 24 hours a day . and spikes in consumption



### Monthly budget

Set your own monthly target and the budget bar will help you keep track of costs



### Data download

Use a USB Flash Drive to Download your Energy Data in.csv format



### Alerts

Peak time , high usage , low battery and wireless signal indicator



### Flexible settings

Set up to 4 different tariff , monthly budget , alerts , and multiple world currencies

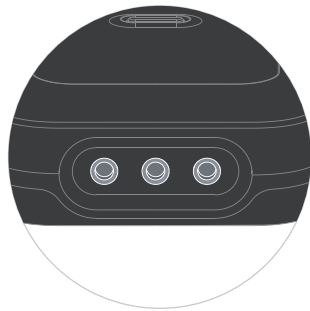
## Install the sensor(s) and transmitter

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Place the sensors around the live feed cable of your electrical panel.

Unclip the clasp to open the sensor, place around the live feed cable and clip the sensor clasp shut.



Insert the sensors jack plug into the transmitter.

**IMPORTANT: Make sure you put the jack plug into the transmitter socket before installing the batteries into the transmitter.**



Open the transmitter case and insert three AA batteries (not provided).

Mount the transmitter on the wall next to or above the electrical panel.



EFERGY RECOMMENDS THAT INSTALLATION IS CARRIED OUT BY A QUALIFIED ELECTRICIAN

**i** Efergy recommends high quality alkaline or lithium batteries for the best product performance. Battery life will depend on environment.

## Find the main feed wires

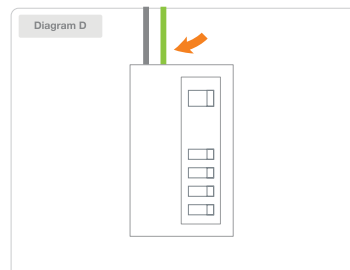
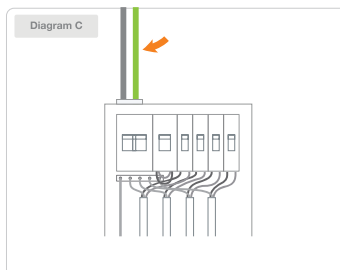
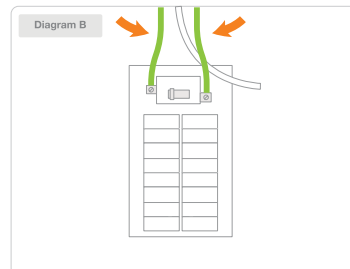
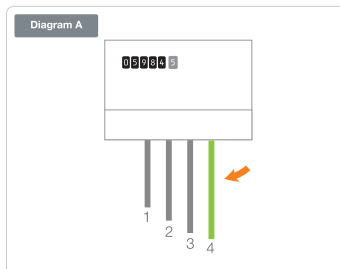
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Locate the live feed cable on your electrical panel. This is normally located near the entrance of the house.

For example, if you have a single tariff meter you should find four cables exiting the electrical panel (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.



ALWAYS SHUT DOWN YOUR  
ELECTRICAL PANEL BEFORE  
INSTALLING THE SENSOR



## Set up the device


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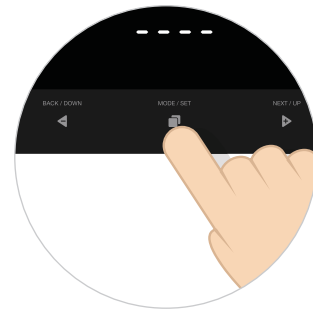
The monitor needs to know the time, date, currency, voltage, tariff charged by your electricity supplier, along with the budget, backlight, alarm, footprint and calibration settings. The following steps will move through each of these settings.




Start by turning on your monitor. Plug the DC/USB cable into your E-Max display, connect to a power adapter (not included in the product set) and then plug it into an outlet that's close to where you want to place the monitor.



The first time that you power on the monitor, the screen will light up and ask you to enter the correct day, month, year and time. Use the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons to change values and the  **MODE/SET** button to save.



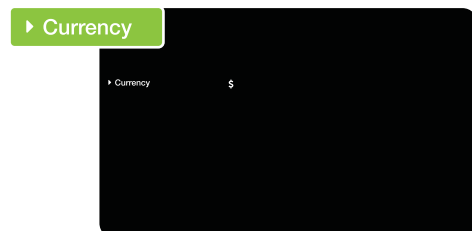
Enter in the settings menu and complete the on-screen steps to set up your device. In the setting mode use the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons to increase or decrease the digit numbers, press the  **MODE/SET** button to confirm and continue to the next setting.




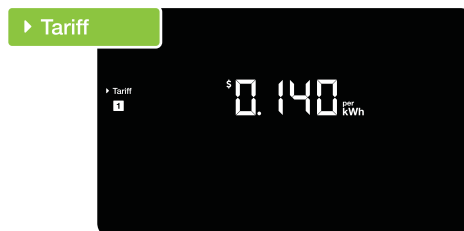
Make sure you enter the correct day, month, year and time (MM/DD/YYYY). For example: May 17, 2020 and the time in the 24-hour notation in the form hh:mm (for example 08:25).




Adjust the voltage using the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons. Tap the  **MODE/SET** button to confirm and to move onto currency selection set up.



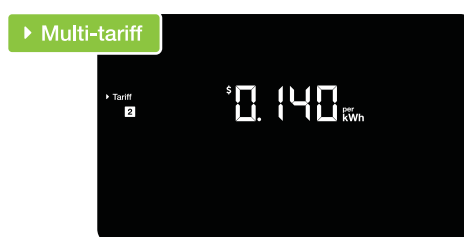
Select the currency using the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons. The default currency will be \$. Tap the  **MODE/SET** button to confirm and to move onto tariff selection set up.



The electricity tariff tells the monitor how to calculate costs, this can be found on your energy bill or by speaking to your energy provider. For **single tariff users**, input the tariff pricing, tap the  **MODE/SET** button to confirm and skip the following tariffs using the ▶ **NEXT/UP** button.



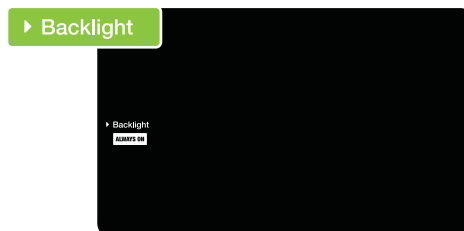
You can select up to **4 different tariffs**. Tap the **MODE/SET** button to set up tariff 2, use the **BACK/DOWN** and **NEXT/UP** buttons to configure the time period and tap the **MODE/SET** button to move to the tariff pricing.



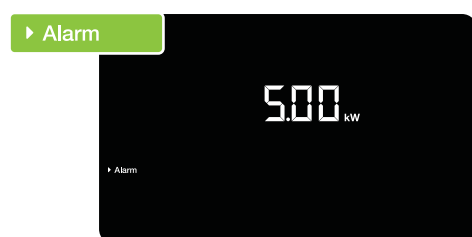
Set the tariff 2 price, tap the **MODE/SET** button to confirm and to move onto the tariff 3 set up. Repeat this process to set up tariff 3 and/or 4, and move onto budget set up.



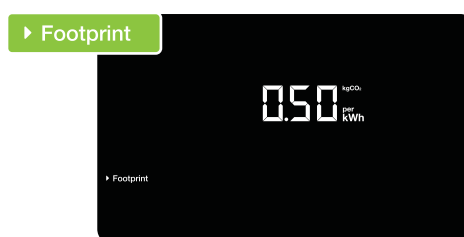
Your budget is your monthly electricity expenditure target and is used by the budget bar to help keep track of costs. Enter your monthly budget using the **BACK/DOWN** and **NEXT/UP** buttons. Tap the **MODE/SET** button to save and move onto backlight set up.



By default, your backlight is always on but you can set the backlight to be timed. Use the **BACK/DOWN** and **NEXT/UP** buttons to choose between **ALWAYS ON** and **TIMED**. Tap the **MODE/SET** button to confirm and move onto alarm set up.



The high usage alert will be displayed if you go over your set maximum power consumption target. Use the **◀ BACK/DOWN** and **▶ NEXT/UP** buttons to set the value. Tap the **MODE/SET** button to confirm and move onto footprint set up.




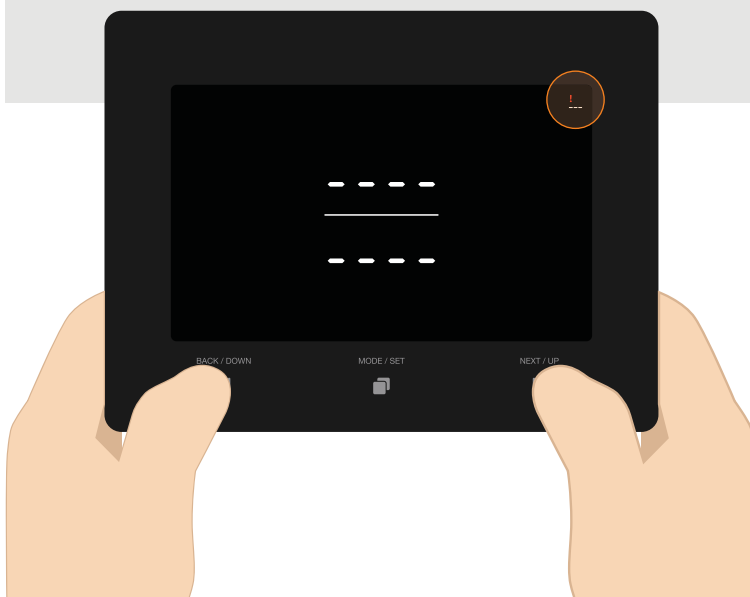
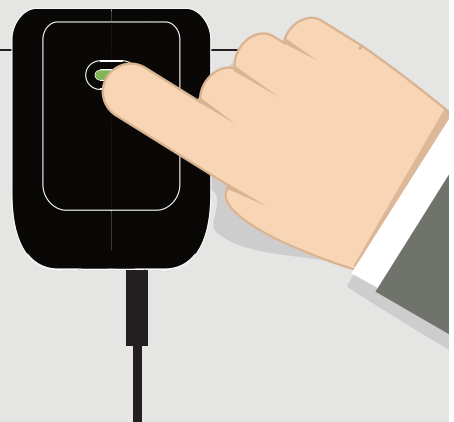
By default the carbon emissions ratio is 0.50 kgCO<sub>2</sub>. Use the **◀ BACK/DOWN** and **▶ NEXT/UP** buttons to increase or decrease the value. Tap the **MODE/SET** button to confirm and move onto the calibration set up.



You can calibrate your monitor to improve the accuracy of the energy consumption readings it presents. Follow the steps on the following link to calibrate your device: <https://efergy.com/emax-calibration/>

## Link the transmitter and monitor

1. Tap and hold the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons of the monitor, the transmission signal icon  will flash for one minute or until the transmitter and monitor are linked.
2. Push the button on the transmitter and wait until the transmission signal symbol becomes solid.



### Adjust how often a transmitter sends data

The transmitters can send data once every **10**, **15** or **20** seconds. Reducing the transmission rate will help to extend the battery life.

To adjust the transmission rate, press and hold the button on the transmitter for 3 seconds until the LED blinks. Press and hold again for 3 seconds to move to the next transmission rate.

The LED lights correspond to the following:

- **Red** - Most frequent transmission rate (default setting)
- **Orange** - Medium transmission rate
- **Green** - Least frequent transmission rate

## Navigation and features

BACK / DOWN



MODE / SET




NEXT / UP





### BACK & NEXT buttons

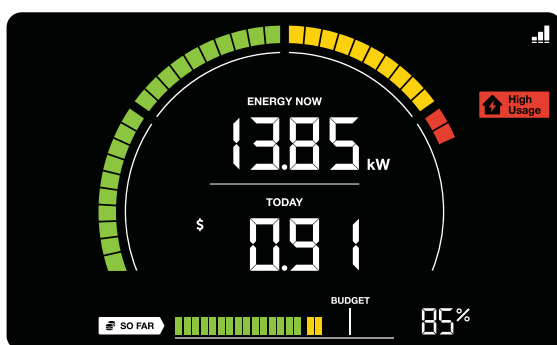
Use the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons to view different periods of use. You can see the consumption Today / Yesterday, This Week / Last Week, This Month / Last Month and This Month Always On & Peak Usage.

### MODE/SET button

On the home screen press the  **MODE/SET** button to view the power and energy in cost.

On the historic consumption tap the  **MODE/SET** button to view cost, kWh and kgCO<sub>2</sub>.

On the home screen press and hold the  **MODE/SET** button for three seconds to enter the settings mode.



### ENERGY NOW

The home screen shows you exactly what power you are using at that precise time and the cost of the electricity you have used so far today.

The E-Max uses intelligent graphics – like a speedometer to show current energy use in kW and a budget bar to help you keep track of costs.

Tap the **MODE/SET** button change the **ENERGY NOW** information displayed from kW to energy in cost.

### ALERTS

The E-Max will show you when you are on your peak tariff, alerting you to avoid using high energy-consuming appliances. You can also set High Usage alert to let you know when you may just have too many things turned on.



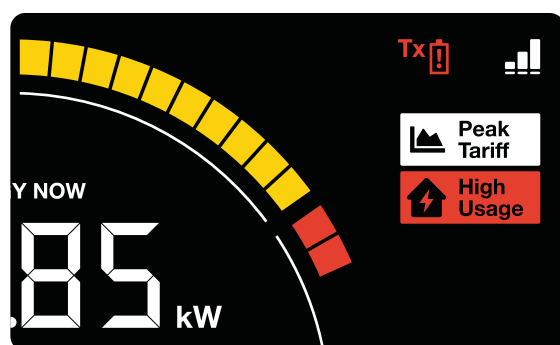
#### Battery indicator

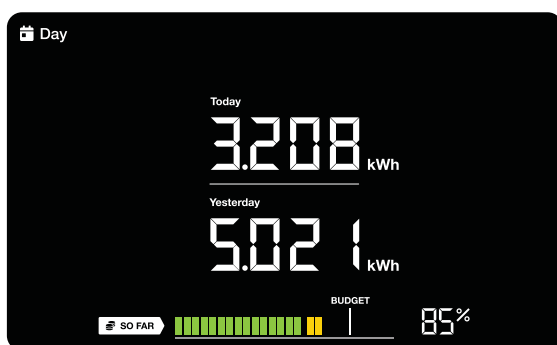
Flashes when the batteries in the transmitter are low.



#### Signal strength


Shows the signal strength of the transmitter.





### HISTORIC DATA

The E-Max comes with a data history function allowing you to compare usage overtime periods. You can see the consumption Today / Yesterday, This Week / Last Week, This Month / Last Month and This Month Always On & Peak Usage.

Use the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons to move onto different time periods. Tap the  **MODE/SET** button view cost, kWh and kgCO<sub>2</sub>.

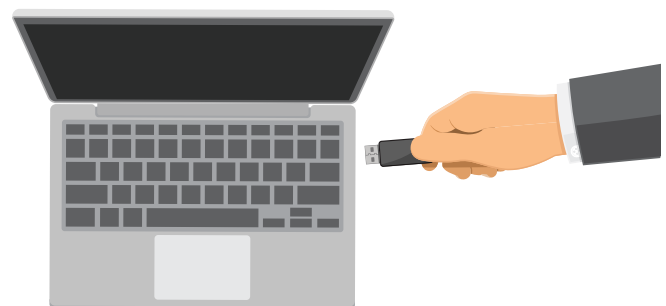
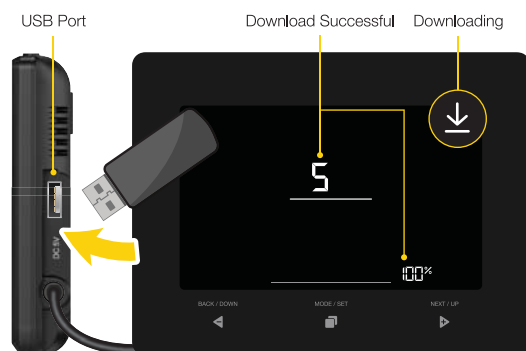
### THIS MONTH ALWAYS ON & PEAK USAGE

The Always On function allows you to see what your home's base energy use is, this includes products that are consuming energy all the time 24h a day, like the Wi-Fi router and other products on standby.


The Peak Usage function shows the highest energy usage since installing the display, giving you an indication on spikes in consumption. This can also be useful for sizing standby generators or solar installations.



## Download your energy data



### Download the energy data onto a USB flash drive

1. Connect the display using the DC 5V power adapter.
2. Plug the USB flash drive into the USB port on the E-Max.
3. The download will then begin automatically showing the download icon  on the top right of the screen. Wait for the progress bar to be completed, until you see the symbol 'S' indicating that the file was downloaded successfully and it's safe to remove the flash drive.



When downloading data, the E-Max must be powered using the DC 5V power adapter.

### Transfer the files to your computer

Plug the USB flash drive into your computer and simply use Microsoft Excel, Notepad or any online using data visualization platform to create simple, easy-to-read, rich and colourful charts.

The data downloaded include the latest 31 days, 12 months (hourly), and 24 months.



**DD.CSV**  
Daily report



**HH.CSV**  
Hourly report



**MM.CSV**  
Monthly report

## How to format a flash drive

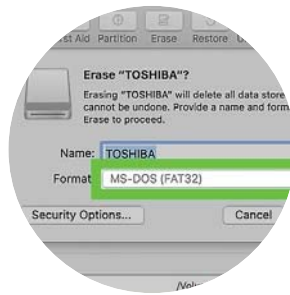
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The E-Max is compatible with FAT and FAT32 file system. In some cases you'll need to format your flash drive.



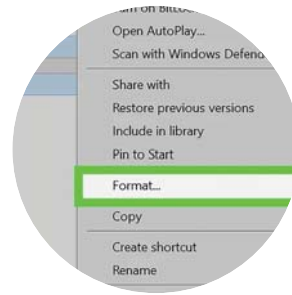
### Connect the USB flash drive to your Mac computer

To do so, plug it into one of your computer's USB ports, which resemble thin, rectangular slots on your computer's housing.



### Format a USB Flash Drive with Mac to FAT or FAT32

Go to Applications > Utilities > Disk Utility. Double click and open Disk Utility. Select your USB flash drive on the sidebar, choose "Erase".



### Format a USB Flash Drive with Windows 10 to FAT32

Under the "Devices and drivers" section, right-click the flash drive and select the Format option. Use the "File system" drop-down menu and select the FAT32 option.





Formatting would erase data completely.  
Make sure that you have a data backup.



## FAQs

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### Q: How do I set the tariff on my monitor?

**A:** Enter in the settings menu by pressing and holding the  **MODE/SET** button. Navigate to the **TARIFF** option, use the **◀ BACK/DOWN** and **▶ NEXT/UP** buttons to change the tariff value and  **MODE/SET** button to save. You can set up to four different tariffs for different times of day; these can be found on your energy bill or by speaking to your energy provider.



### Q: How do I set my budget?

**A:** Enter in the settings menu by pressing and holding the  **MODE/SET** button. Navigate to the **BUDGET** option, enter your monthly expenditure using the **◀ BACK/DOWN** and **▶ NEXT/UP** buttons and  **MODE/SET** button to save.

### Q: How do I set up the backlight?

**A:** Long press the **LIGHT** button at the top of the display for quick access to backlight set up. You can select either **ALWAYS ON** or **TIMED** (by pressing the  **MODE/SET** button). If you select the **TIMED** option, you can use the **◀ BACK/DOWN** and **▶ NEXT/UP** buttons to set the time when you would like the backlight to be on (From-To) and tap  **MODE/SET** button to save.

### Q: How do I change currency?

**A:** Enter in the settings menu by pressing and holding the  **MODE/SET** button. In the settings menu navigate to the **CURRENCY** option. Use the **◀ BACK/DOWN** and **▶ NEXT/UP** buttons to change the currency value and  **MODE/SET** button to save. This will change the tariff and budget settings so remember to check these afterwards.

### Q: How to calibrate the monitor?



**A:** You can calibrate your monitor to improve the accuracy of the energy consumption it presents. Follow the steps on this link to calibrate your device  
<https://efergy.com/emax-calibration/>

### Q: The display shows 'F' when downloading

**A:** When downloading data, the E-Max must be powered using the DC 5V power adapter.

The E-Max is compatible with FAT and FAT32 file system. In some cases you'll need to format your flash drive (see page 16).

**Q: Why is the signal icon showing an alert?**

**A:** In some cases it may be necessary to move the display closer to the transmitter. If this does not work, replace the transmitter batteries and pair it with the monitor again. Tap and hold the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons of the monitor, the transmission signal symbol  will flash for one minute or until the transmitter and monitor are linked. Push the button on the transmitter and wait until the transmission signal symbol  becomes solid. Please see online support pages for more information.


**Q: Do I need use alkaline batteries in the E-Max?**

**A:** Efergy recommends using the E-Max powered by external DC 5V power adapter. Alkaline batteries are optional if you need move around the house to check your appliance's energy consumption.

**Q: How long the E-Max will work if it's just powered by alkaline batteries?**

**A:** When using alkaline batteries the E-Max will always work in energy saving mode. The display can work up to 1 month. Efergy recommends using the E-Max powered by external DC 5V power adapter.


**Q: How to reset the monitor?**

**A:** When the display is in the 'Energy Now' screen, push and hold  **MODE/SET** and **LIGHT** buttons for five seconds. This will clear all the data/ information and return the display back to his original factory set up.

**IMPORTANT:** You will lose all the information stored in the memory of the display.

**Q: How to pair the E-Max to your current Efergy system?**

**A:** The E-Max is compatible with the Efergy Engage, Elite and E2 energy monitors. You can easily pair the E-Max with the transmitter and sensor(s) of your existing system by following the steps below:

1. Tap and hold the ◀ **BACK/DOWN** and ▶ **NEXT/UP** buttons of the monitor, the transmission signal icon  will flash for one minute or until the transmitter and monitor are linked.
2. Push the **LINK** button on the transmitter and wait until the transmission signal symbol becomes solid.

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

🔗 Support site: [efergy.com/emax-guide](http://efergy.com/emax-guide)

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

📧 Sales: [sales@efergy.com](mailto:sales@efergy.com)

## Technical specifications

Model Number	E-Max	Receiving Period	10 seconds
Monitor size	167 x 25 x 127 mm	Wireless open Range	< 70meters
Weight	253g	Data storage	12 months
LCD View size	128 x 78.4mm	Working environment	IP40, Indoor used only
Interface	1 x mechanical button / 3 x touch button	Operation Temperature	0°C to 40°C
Install type	Table stand / Wall mounting	Storage	0°C to 50°C; RH > 90%
Power supply	DC 5V (3 AAA alkaline battery is optional)	This product is intended to be used indoors in a domestic environment. It is not suitable for outdoor use.	
USB Port	USB 2.0 Standard Type-A		
LCD Type	4-Colour PMMVA Segment		



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