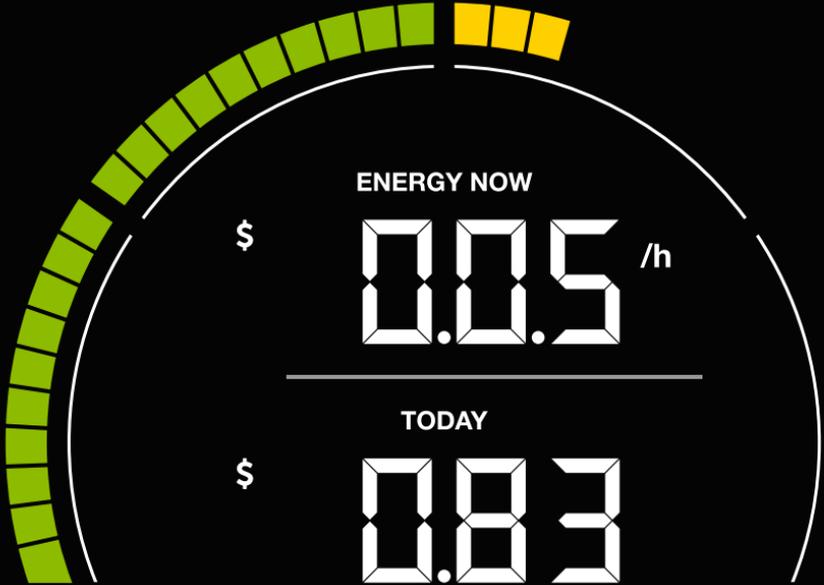
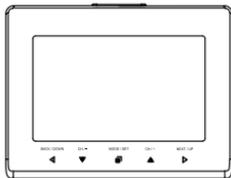


EMax Smart Home Energy Monitor

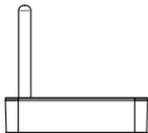


044

In the box



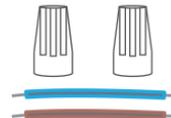
1 x Monitor



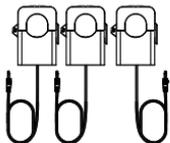
1 x Transmitter



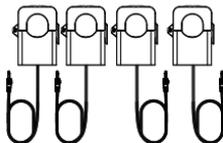
1 x SMA antenna



Cable and nuts



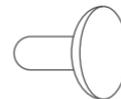
1,2 or 3 x 120A
CT Sensor



0 or 4 x 60A CT Sensor



1 x Instruction
manual



Rubber covers

Contents

EMax Smart Home Energy Monitor - Key features	04
Set up the device	05
Link the transmitter and monitor	09
Connect to App	10
Navigation and features	11
Download your energy data	14
How to format a flash drive	15
FAQs	16
Technical specifications	18
Customer support	18

EMax Smart Home Energy Monitor - Key features

Revolute the electricity data to make homes efficient, greener and cost saving



Live energy awareness

Real-time data refresh each second
Largest 7.9" high quality Display
Intuitive App anywhere



Energy insights

Private data ownership
Up to 24 months data recording
Multi interval history data download



Cost Tracking

Support up to 4 tariffs
Cost prediction
Bill cycle comparing



Appliances monitoring

Easy installation
True power monitoring
Extendable multi-circuits monitoring



Alerts

Peak usage of the day or month
Over budget of the month
Always on alert of the month



Third party Integration

DIY home automation
IFTTT and Voice control
DIY home automation
And much more...

Set up the device

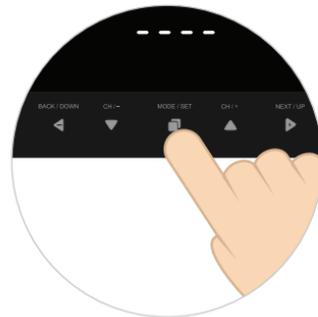
When first time to power on, the monitor needs to know the time , date, currency, tariff charged by your electricity supplier, along with the budget, backlight, alarm, footprint and calibration settings. The following steps will move through each of these setting.



Start by turning on your monitor. Plug the DC / USB cable into your Emax 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).



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** to configure the time period and tap the □ **MODE / SET** button to move to the tariff pricing.

▶ Multi-Tariff



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.

▶ Backlight



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.

▶ Budget



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.

▶ Alarm



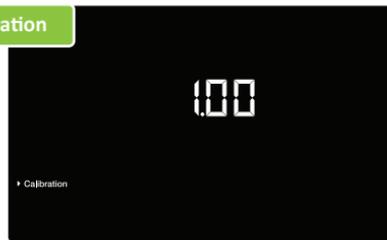
The high usage alert will be displayed if you go over your set maximum power consumption target. Use the **BACK / DOWN** and **NEXT / UP** buttons to set the value. Tap the **MODE / SET** button to confirm and move onto footprint set up.

► Footprint



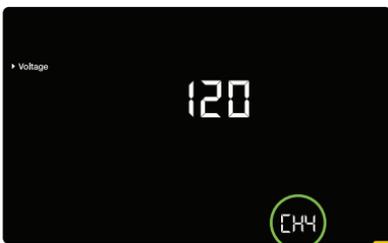
By default the carbon emissions ratio is 0.50 kg CO₂. Use the ◀ **BACK / DOWN** and ▶ **NEXT / UP** buttons to increase or decrease the value. Tap **MODE / SET** button to confirm and move onto the calibration set up.

► Calibration



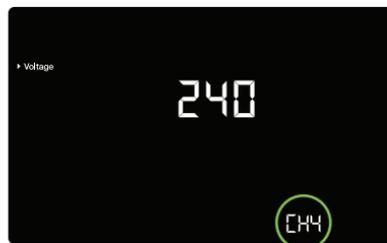
You can calibrate your monitor to improve the accuracy of the energy consumption readings it presents. Follow the steps on the following link to calibrate your device:

<https://efergy.com/emax-calibration>.



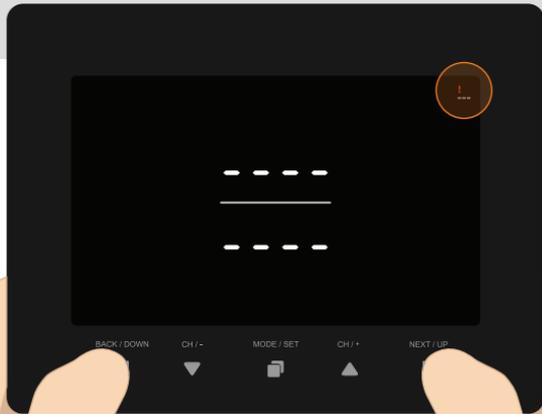
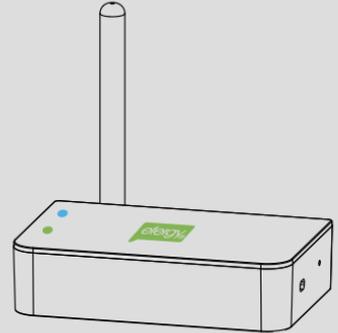
*Special settings for North America 240 breakers

120 / 240V system , if the monitored circuit comes with a 240V breaker, Long press " LIGHT " button and " CH / - " button to enter first, Then press " CH / + " button to select the proper channel alternatively, Once channel been selected , press " NEXT / UP " to set as 120 or 240. Finally press " MODE / SET " button to confirm settings.



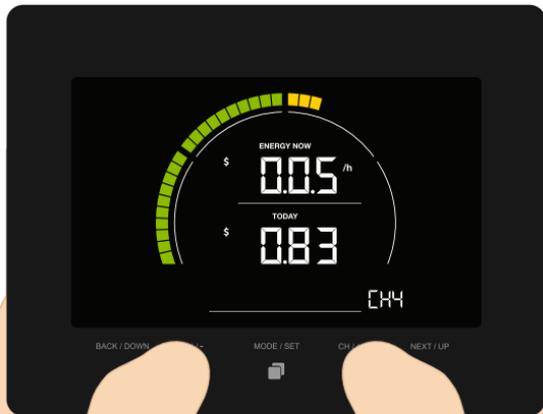
Link the transmitter and monitor

- 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 . Power on the transmitter , and wait the GREEN LED on it turns into solid and transmission signal symbol becomes solid.



Connect to App

- Download App from.
- Install and register an valid account on your Smartphone.
- Tap “Add device” on the App.
- Follow the instruction to add Efergy EMax smart home energy monitor kit.



- Tap and hold “CH/-” “CH/+” buttons on the EMax display to start Wi-Fi configuration process.
- Click “add device on the App”.
- Select “Efergy SHMS” on the device list.
- Follow the guide to finish step by step.
- Rename the circuit ID on App if you have any 60A for sub- metering .

Now you are ready to enjoy your smart home energy monitor.

Navigation and features

BACK / DOWN



CH / -



MODE / SET



CH / +



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.

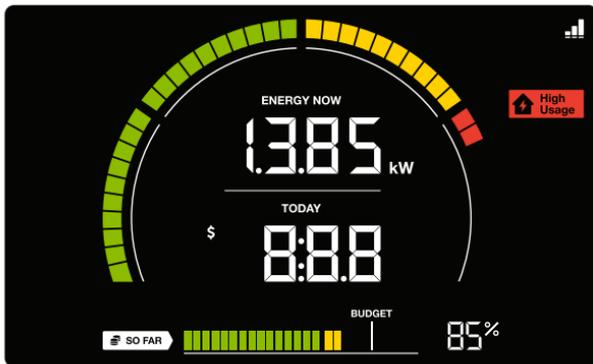
Use the **CH / -** and **CH / +** buttons to view meter energy information . You can see the Energy meter consumption Today / Yesterday , This week / Last week ,This month / Last Month and Always On & Peak Usage.

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 kgCO2.

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 Emax 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.

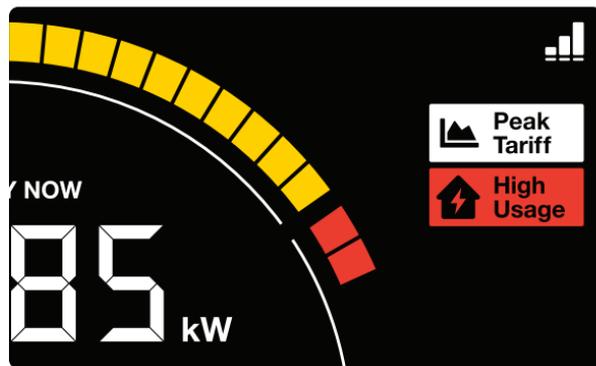
ALERTS

The Emax 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.



Signal strength

Shows the signal strength.





HISTORIC DATA

The Emax 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 kaCO2.

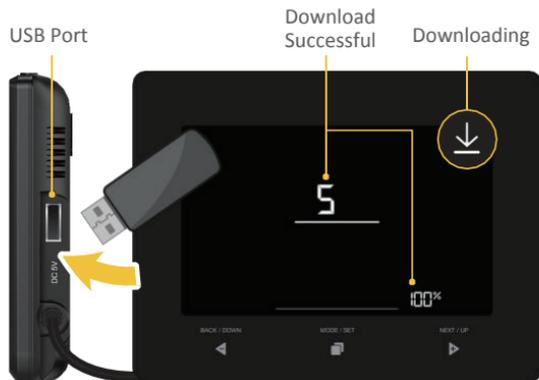
THIS MONTH ALWAYS ON & PEAK USAGE

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

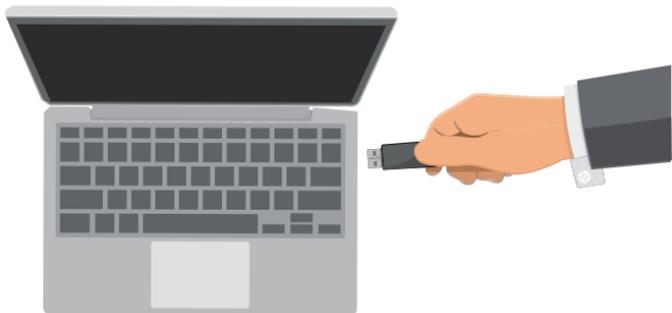


Download the energy data onto a USB flash drive

1. Connect the display using the DC 5V power adapter.
2. Plug the USB flash drive into the USB port on the Emax.
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 Emax 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.



RT . CSV
Real-time report



HH . CSV
Daily report



DD . CSV
Hourly report



MM . CSV
Monthly report

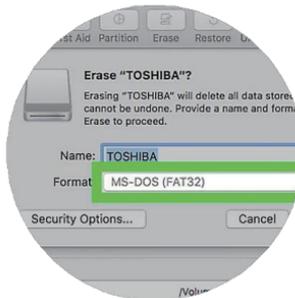
How to format a flash drive

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



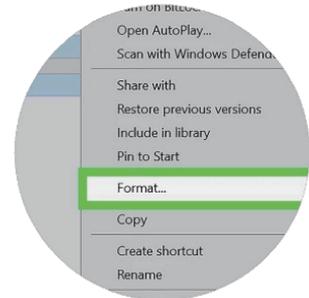
Connect the USB flash drive to your Mac computer

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 > 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

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 wil 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 Emax must be powered using the DC 5V power adapter.

The Emax is compatible with FAT and FAT32 file system . In some cases you'll need to format your flash drive (see page 15).

Q : Do I need use alkaline batteries in the Emax ?

A : Emax need be 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 . The WIFI will be turn off if only powered by Alkaline batteries for very short of time.

Q : How to pair the Emax gateway to transmitter ?

A : Tap and hold the **BACK / DOWN** and **NEXT / UP** buttons of the monitor , the transmission signal symbol will flash until the transmitter and monitor are linked . The transmitter LED will turn on solid GREEN . Please see online support pages for more information.

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 Emax gateway to your Wifi ?

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

- 1 . Tap and hold the **CH / -** and **CH / +** buttons of the monitor. the WIFI Signal bars will be flashing for pairing.
- 2 . Follow the instruction on Aop to configure with correct WIFI name and password to finish the process . Be noted only 2 . 4G WIFI network is acceptable.

Technical specifications

Model Number	EMax	Upstream wireless	2.4GHZ. 820.11b/a/n
Monitor size	167 x 25 x 127 mm	Downstream wireless	ISM 433 5MHZ
Weight	253g	Date rate	Per second
LCD View size	128 x78 4mm	Wireless open Range	70meters (ISM 433MHZ)
Intertace	1 x mechanical button / 5 x touch button	Data storage	12 months
Install type	Table stand / Wall mounting	Working environment	IP40 , Indoor used only
Power suppl	DC 5V	Operation Temperature	0°C to 40°C
USB Port	USB 2.0 Standard Type-a	Storage	0°C to 50°C : RH > 90 %
LCD Type	4-colour PMMVA Segment		

This product is intended to be used indoors in a domestic environment . It is not suitable for outdoor use.

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

 Technical support : customer care@efergy.com

 Sales:sales@energy.com



www.efergy.com