



## Plug-in Energy Monitor



The best way to save energy is to stop wasting it

## Table Of Content

<b>Contents</b>	
<b>Introduction</b>	<b>3</b>
<b>Installation / Setup</b>	<b>4</b>
<b>Electricity Rate</b>	<b>5</b>
<b>Carbon Emission Value</b>	<b>6</b>
<b>Modes</b>	<b>7</b>
<b>Energy Mode</b>	<b>8</b>
<b>Cost Mode</b>	<b>9</b>
<b>CO<sup>2</sup> Mode</b>	<b>10</b>
<b>Energy Count Mode</b>	<b>11</b>
<b>Countdown Timer Mode</b>	<b>12</b>
<b>Outlet Manual ON/OFF Switch</b>	<b>13</b>
<b>Product Warranty</b>	<b>14</b>
<b>Copyright and Disclaimer</b>	<b>15</b>

## Introduction

The Energy Monitor helps you understand how much power your appliances use. Once you understand this you can take steps to reduce your energy consumption – after all, it's difficult to manage what you can't measure!

The Energy Monitor also includes surge protection to ensure your appliance is protected against surges and voltage spikes whilst being measured



## Installation / Energy Monitor Configuration Setup

### Install Energy Monitor

The Energy Monitor tracks power consumption of individual home appliances.

1. Plug in the Energy Monitor to a powered AC outlet
2. Plug in an appliance into the Energy Monitor

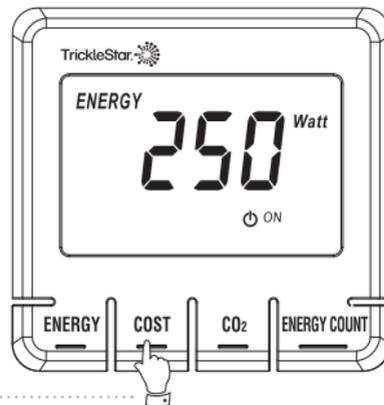
### Perform Energy Monitor Configuration Setup

The Energy Monitor is preset with a default rate (\$0.12/ KWH) and carbon emission value (0.49Kg/KWH). Both of these values can be changed.



## Electricity Rate

Press the COST button for 5 seconds to enter the electricity rate setup page.



1. The default rate is \$0.12 per KWH. Press ▼ (COST) or ▲ (ENERGY) to adjust the electricity rate.
2. Press  (CO<sub>2</sub>) to confirm and exit the setup page.

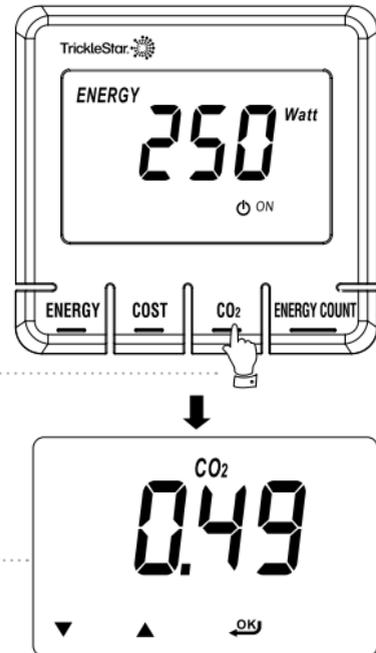


## Carbon Emission Value

Carbon dioxide is emitted when producing electricity by burning coal & fossil fuel. This is referred to as a CO<sub>2</sub> footprint or carbon emission. The average carbon emission rate is 0.49Kg of carbon emission for every 1 KWH of electricity produced. This value can be changed depending upon your local electric utility and power source. Please contact your local utility for their carbon emission rate.

Press the CO<sub>2</sub> button for 5 seconds to enter the carbon emission rate setup page.

1. The default carbon emission rate is 0.49Kg per KWH. Press ▼ (COST) or ▲ (ENERGY) to adjust the electricity rate.
2. Press  (CO<sub>2</sub> button) to confirm and exit the setup page.



## Modes

There are 5 different modes:

1. Energy Mode
2. Cost Mode
3. CO<sub>2</sub> Mode
4. Energy Count Mode
5. Countdown Timer Mode

### **Energy Mode**

In Energy Mode, press ENERGY button to switch to different display of energy information. The Energy Monitor can display power consumption of an appliance in real time / day / month / year estimates.

*Note: The Energy Monitor reads your appliance's energy usage continuously while your appliance is on and off, and calculates the estimated energy information based on real time and historical measurements. We recommend you leave the Energy Monitor measuring an appliance for several use cycles, to obtain a more accurate estimate.*

## Energy Mode

### Real Time Energy Consumption

Displays real time energy consumption of the appliance in Watts.

### Daily Estimated Power Consumption

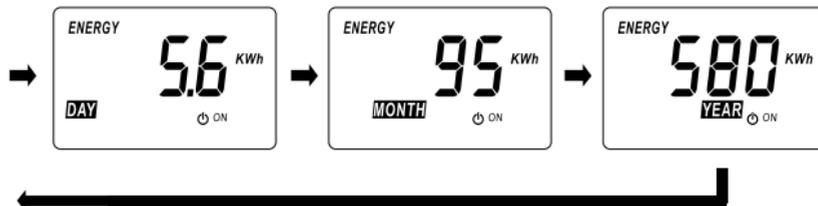
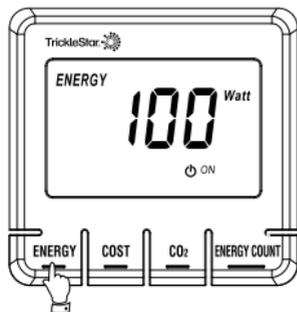
Displays the daily energy consumption (KWH) of the appliance based on real time and historical measurements.

### Monthly Estimated Power Consumption

Displays the monthly energy consumption (KWH) of the appliance based on real time and historical measurements.

### Yearly Estimated Power Consumption

Displays the yearly energy consumption (KWH) of the appliance based on real time and historical measurements.



## Cost Mode

In Cost Mode, press COST to switch between different energy cost displays. The Energy Monitor can display real time / day / month / year estimates.

### Real Time Cost

Displays the real time cost of the appliance in dollar/hr.

### Daily Cost

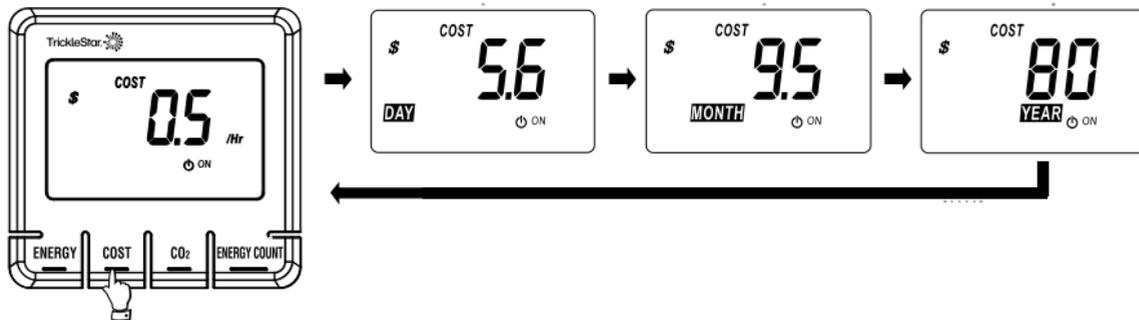
Displays the estimated daily cost of the appliance based on real time and historical measurements.

### Monthly Cost

Displays the estimated monthly cost of the plug-in appliance based on real time and historical measurements.

### Yearly Cost

Displays the estimated yearly cost of the plug-in appliance based on real time and historical measurements.



## CO<sub>2</sub> Mode

In CO<sub>2</sub> mode, press CO<sub>2</sub> to switch to display of carbon emission data. The Energy Monitor can display carbon emission of the plug-in appliance in real time / daily / monthly / yearly estimates modes.

### Real Time CO<sub>2</sub> Emission

The Energy Monitor displays the real time CO<sub>2</sub> value of the plug-in appliance in kg/hr.

### Daily CO<sub>2</sub> Emission

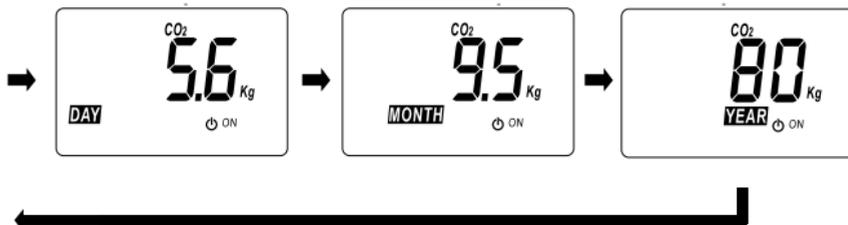
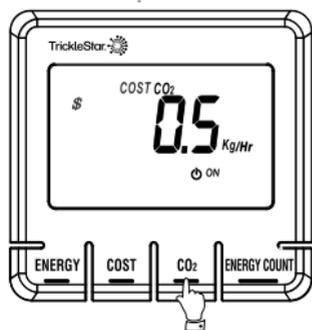
The Energy Monitor estimates the daily CO<sub>2</sub> value of the plug-in appliance based on real time and historical measurements.

### Monthly CO<sub>2</sub> Emission

The Energy Monitor estimates the monthly CO<sub>2</sub> value of the plug-in appliance based on real time and historical measurements.

### CO<sub>2</sub> Emission

The Energy Monitor estimates the yearly CO<sub>2</sub> value of the plug-in appliance based on real time and historical measurements.



## Energy Count Mode

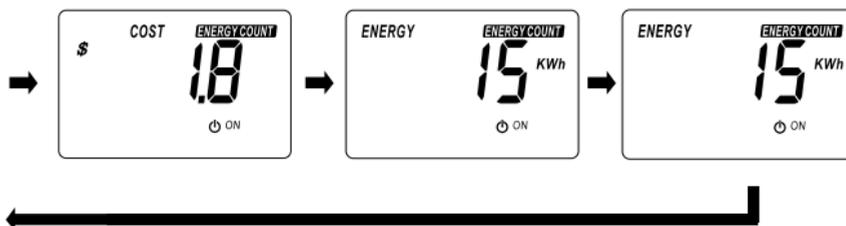
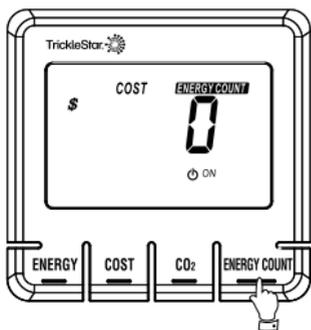
Energy Count offers an easy way to find out how much total energy consumption or energy cost each time you use an appliance.

You can activate ENERGY COUNT function by pressing the ENERGY COUNT button. While ENERGY COUNT icon flashing, turn on the plug in appliances. The energy monitor will display the accumulative energy consumption in real time.

While ENERGY COUNT icon is flashing, turn on the power of plug-in appliance. The energy monitor will now display the accumulative energy consumption in real time.

During ENERGY COUNT mode, you can press ENERGY / COST / CO<sub>2</sub> button to see different accumulating energy information in real time.

Press the ENERGY MONITOR button to finish accumulation. You can see how much energy you have consumed in the cycle.



## Countdown Timer Mode

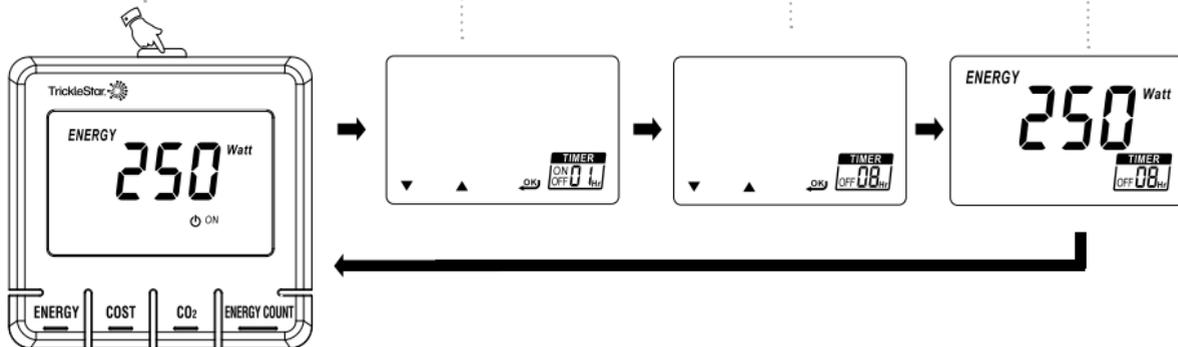
Countdown Timer Mode supports a simple countdown timer function that allows you to set when the outlet is switched on or off within a 24 hour period.

Configure Countdown Timer Mode by pressing the **TIMER** for 3 seconds.

1. Press **▼** (COST) or **▲** (ENERGY) to select ON or OFF for outlet to be switched when hourly timer expires.
2. Press **OK** (CO<sub>2</sub>) to confirm and then set countdown timer (01~24 hours).

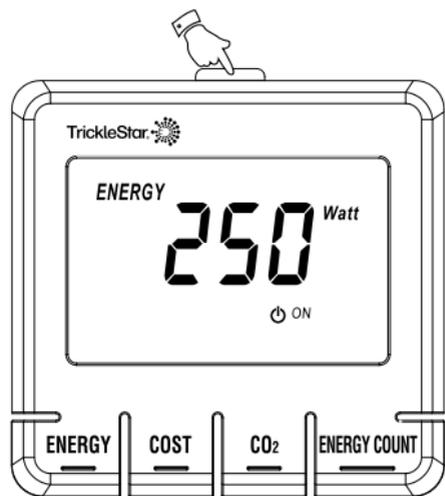
3. Press **OK** (CO<sub>2</sub>) to confirm exit the countdown timer configuration.

The countdown timer configuration remains in memory. To re-activate the timer, press **TIMER**. At any time you can press **TIMER** to deactivate the countdown timer function.



## Outlet Manual On/Off Switch

The outlet can be switched on or off manually.



1. Press (TIMER) and (ENERGY) to switch outlet off or on.

Note: the countdown timer will be disabled when the outlet is manually switched.

## Product Warranty

TrickleStar warrants to the original purchaser of the TrickleStar Product for 1 year, that the Product shall be free of defects in design, assembly, material, or workmanship, and will repair or replace, at its option, any defective product free of charge. Email a warranty claim to us at [warranty@tricklestar.com](mailto:warranty@tricklestar.com)

Be prepared to provide the following information:

- Product part number of the product
- The date of the occurrence.
- Where and when you purchased the product.
- A copy of original receipt.

A Customer Service Representative will then instruct you on how to forward your product and receipt and how to proceed with your claim.

## Copyright and Disclaimer

© Copyright TrickleStar Ltd.

All rights reserved.

TrickleStar® is a registered trademark of TrickleStar Ltd. All other trademarks are the property of their respective owners.

Disclaimer: TrickleStar reserves the right to change specifications or designs described in this manual without notice and without obligation. Any typographical, clerical or other error or omission in this document or other documents or information issued by TrickleStar shall be subject to correction without any liability on the part of TrickleStar without notice.



The best way to save energy is to stop wasting it