EnviR

The SmartR Monitor

Monitor User Guide

SmartNow
Empower the Individual

CURRENT cost

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Introduction

Thank you for making the decision to reduce your energy usage (and your electricity bill). It's not all about cutting use, homes need energy to function, but identifying waste and cutting it is one way of helping the planet by reducing our emissions of greenhouse gases.

Current Cost is the leading global provider of real time in-home energy monitors. As an innovative manufacturer we have successfully distributed 1,000,000 products throughout the globe.

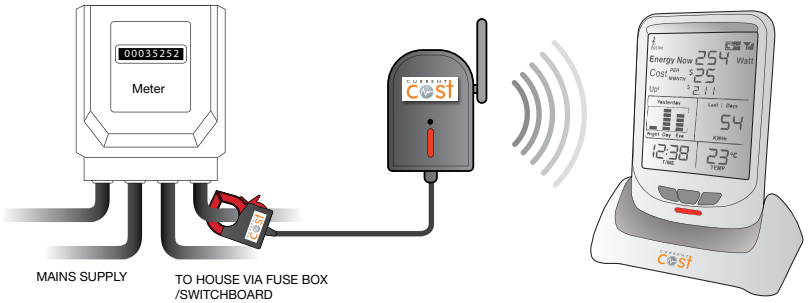
The Current Cost ethos is to empower consumers with real time information that helps them identify energy usage and its cost, enabling them to change energy awareness and habits. We don't want you to stop using…just wasting!

The beauty of the Current Cost energy monitor is that it shows how much energy you're using right now. The EnviR also illustrates how much it is going to cost you everyday and every month. It's easy…by making small changes you could receive some big savings.

Keep your EnviR monitor somewhere easy to observe and you'll soon realise how simple it is to save money, turn your appliances off standby or switch the light off when you leave the room and see how much this changes the reading. Check the display before you leave the house or go to bed…it's amazing how much energy you waste without realising.

How it works

The EnviR monitor shows real time information; a wireless signal is sent every six seconds from a transmitter attached via a CT Jaw to your meter and then to the display. This enables you to view your energy consumption easily, showing changes in power consumption when different electrical appliances are used.



Have you got everything?

In the Box: **Contents of your box**

- EnviR Display
- C² Transmitter with CT Jaw
- Power adaptor for display
- Instructions manual
- 1 year Warranty

Before you get started – Safety and care of your monitor

It's important you observe some simple precautions before using the product.

The EnviR monitor does not require you to carry out any electrical wiring. However, the transmitter has to be installed at the meter near the electrical supply to your property. Australian Safety Standards require a qualified electrician to perform the Installation.

Similarly, if you notice anything unusual about your electricity supply, such as loose wires, exposed cabling, burn marks or holes in the insulating materials or damage to your meter then STOP immediately and consult a qualified electrician.

- **X** Do not attempt to repair or service any part of the EnviR monitor. Contact our customer service department for assistance.
- **X** Do not immerse the product in water, or any other liquids.
- **X** Do not expose the product to heat, flame, steamy conditions or extreme cold.
- **X** Do not open the equipment or touch any of its electronic circuitry.
- **X** Do not hit, strike or drop the equipment. If the display gets broken take special care not to touch the liquid crystals.
- **X** Do not use this product for any purpose other than for which it was intended.

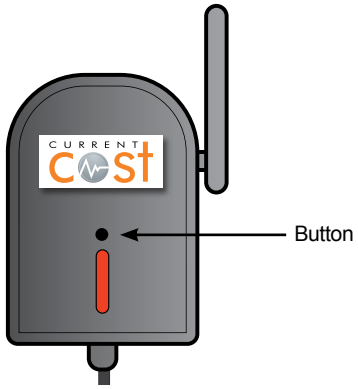
Setting up your EnviR Monitor

Setting up your EnviR display

1) The display power adaptor should be connected to the round socket found in the base of the display unit.
2) Plug the display power adaptor into a convenient wall socket
3) The "Energy Now" value on the display will now show dashes. The EnviR energy monitor should be left powered on at all times to read energy correctly and run its clock.
4) Remove the plastic battery tab from the underside of the black transmitter unit; the transmitter will now be activated.
5) If the display shows '0 Watts' the display has already been paired and is ready to use. If it shows dashes the display and transmitter need pairing.

Pairing the EnviR display and transmitter

1) Place the transmitter and the display in the same room.
2) Remove the battery tab from the back of the transmitter.
3) On the front locate the recessed tuning button in the centre of the transmitter.



4) Using a match or similar, push and hold the recessed tuning button for nine seconds or until the LED on the transmitter has flashed ONCE.
5) Upon releasing, the red LED on the transmitter will rapidly flash for a minute. If it doesn't, please try again.
6) Whilst the LED on the transmitter is flashing, press and hold the DOWN (V) button on the display until the LED on the display flashes.
7) When you release the button the screen will show a tuning signal indicating the display is tuning to the transmitter. When your monitor and transmitter are tuning, the middle right of the display will show "240" (indicating domestic voltage).
8) Once tuning is completed, your display will clear and then "0 watts" will appear. This usually takes 1 to 2 minutes. The aerial icon will appear indicating pairing has been successful.

Sensable software – Voltage Adjustment

The new Sensable software found in the EnviR transmitter allows you to set your known voltage.

The default value shown on the display of 240 is correct for almost all homes in the Australia and you do not normally need to change it. If you do wish to change it, for example you have a 220V private electricity supply, undertake the following steps:

1) Follow the steps 1 through to 6 for Pairing the EnviR display and transmitter.
2) When you release the button the screen will show a tuning signal indicating the display is tuning to the transmitter. When your monitor and transmitter are tuning, the middle right of the display will show “240” (indicating domestic voltage).
3) At this point if you wish to adjust your voltage setting please undertake the following:
   (i) Press and hold the recessed tuning button on the transmitter for 3 seconds and then release.
   (ii) The display will now have changed and will indicate “250”.
   (iii) Repeat this process to select your known voltage (the range is from 200 to 260V starting at 240V).
   (iv) Each press cycles the voltage shown on the display, so press as many times as you need to reach the voltage value you want to use.
   (v) For example if you wished to set 200V you will need to repeat steps (i) and (ii) three times and the display will show 250, 260 and then 200.
4) Once completed, your display will clear and then “0 watts” will appear. This usually takes 1 to 2 minutes. The aerial icon will appear indicating pairing has been successful.

*Please note that the voltage shown on the display is used for the EnviRs internal calculations, this has nothing to do with the display power adaptor. The power adaptor is designed to work in all Australia homes with no adjustment.

Sensable software – Pairing additional C2 enabled displays to the transmitter

The new Sensable software found in the EnviR transmitter allows you to set up additional C2 enabled displays within the home. To pair additional displays please undertake the following steps:

1) Follow steps 1 through to 3 for Pairing the EnviR display and transmitter.
2) Using a ballpoint pen or similar, push and hold the recessed tuning button until the LED on the transmitter has flashed exactly TWICE.
3) Upon releasing, the red LED on the transmitter will rapidly flash for a minute, indicating that the transmitter is now ready to pair with any additional C2 enabled displays, at the same time as staying paired with the existing EnviR display. If it doesn’t, please try again.
4) Whilst the LED on the transmitter is flashing, at the additional display(s) press and hold the DOWN (V) button on the display until the LED on the display flashes.
5) When you release the button on the additional display(s) the screen will show a tuning signal indicating the display(s) is tuning to the transmitter.
6) Once tuning is completed, all displays will clear and then “0 watts” will appear. This usually takes 1 to 2 minutes. The aerial icon will appear indicating pairing has been successful.

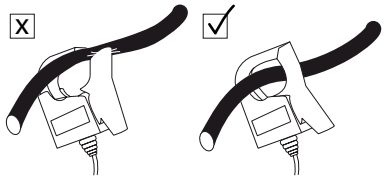
Fitting the Transmitter to your Meter – To be performed by a Licensed Electrician

1) Now that the transmitter and display are paired plug the CT jaw into the middle socket on the underside of the transmitter. Take the black transmitter with its attached CT jaw to your mains meter.

This is often on an outside wall or in your garage, utility room or porch. If you live in a flat, it can often be found outside your front door in the communal staircase. The EnviR display unit may be left in any room you wish to see it, for example the Hall or Kitchen.

TIP: If you have one electricity meter, ask your electrician to fit the transmitter jaw as described below. If you have two electricity meters, have the electrician select the one which supplies your household electricity, not the one which supplies your night storage heaters.

2) Ask the electrician to fit The CT jaw around the live cable which runs from your meter to your fuse box.



3) The electrician should choose a place on the wire’s length where there is some room around and behind it then encircle the wire with the jaw of the CT. Please note, it should not be “clamped” onto the wire. It is safe to ease the wire forwards to make room, provided this is done gently.

4) Place the transmitter in any suitable dry location, as high as possible where it will not fall within the length of its cable. As soon as this is done, the EnviR display will start to work. No electrical damage can occur to either the electrical installation or the transmitter by choosing the wrong wire.

Understanding the EnviR Display

When your EnviR display is properly installed you should see a screen similar to the image below:

Setting the Clock

To set the clock on the EnviR display

- Press and hold the OK button until the LED on the display flashes. (approx. three seconds)
- The screen will clear and the clock hours will flash.
- Use the UP() and DOWN() buttons to alter the hours. (24 hour format)
- Once the correct hour has been selected press the OK button.
- The minutes will now flash, use the UP() and DOWN() button to set the correct minutes.
- Push the OK button, the display will return to normal operation.

Adjusting your electricity price

The EnviR display has been programmed with a default p/kWh unit rate. If you wish to change the unit rate please follow these steps:

- Push and hold the UP(Λ) button on the EnviR Display until the LED flashes then release.
- Push the UP(Λ) or DOWN(V) button to change from pounds/pence to euros/cents.
- Press the OK button to confirm.
- The price will then start flashing (i.e. c/p/kWh). Push the UP(Λ) or DOWN(V) button to adjust the pence/cents price of the electricity.
- Press the OK button to confirm.
- Repeat this process with the pence/cents option.
- Press the OK button to confirm and the EnviR display will resume normal operation.

Setting an additional rate

There are several electricity tariffs available, if you pay different kWh unit rates for electricity consumed, the EnviR display can be set up as follows.

- Press and hold the UP(Λ) and DOWN(V) buttons together until the LED flashes and release.
- Using the UP(Λ) and DOWN(V) buttons you can now select your low rate unit cost.
- Press the OK button to confirm when the correct price has been set – if you don't change the cost, you will not see the time section.
- You will then see the clock flashing. Using the UP(Λ) and DOWN(V) buttons you can now set the time that your low rate starts. Press the OK button to confirm when the time has been set.
- Using the UP(Λ) and DOWN(V) buttons you can set the time your normal rate starts. Press the OK button to confirm when the time has been set.
- Using the UP(Λ) and DOWN(V) buttons you can now select your normal rate unit cost.
- Press the OK button to confirm and resume normal operation.

IAM & PC Connectivity

In-home, real-time individual appliance monitoring is a world first and is a great addition to the Current Cost EnviR energy monitor. The IAM plug-in devices (individual appliance monitors) transmit to the monitor's display (the number of Watts consumed and the cost for using these connected appliances.) The EnviR can pair with up to nine IAMs so you can discover the cost and usage of your electrical appliances in the home.

PC Connectivity

Using a Current Cost RJ45 to USB Data Cable, you can download data from your EnviR monitor to your PC. The ability to view and graph up to 7 years historical usage data will empower you to understand your energy behaviour and help you identify times where wastage is occurring.

Current Cost and its enthusiastic partners continue to develop various types of software, to provide the opportunity to analyse your usage over a period of time for both PC and Mac users. Understanding the pattern of your energy usage can help you to make informed decisions on the efficiency of your appliances, or help you to take advantage of off-peak times when electricity is cheaper.

All accessories for the EnviR are available on www.smartnow.com.au and www.smartnow.co.nz

C² Technology

Wherever you see the C² logo, you know it's a member of a family of products that enables you to manage your energy consumption.

Look out for the logo on other Current Cost products as well as our partner organizations. When you buy a C² product you can feel safe in the knowledge that it is of the highest standard and that it will communicate with your other C² equipment.

C² 433MHz enabled

Changes or modifications not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment.

Troubleshooting

Your Current Cost monitor should reach you in perfect condition. If you have connected it properly but can't get it to work, please check the following before contacting us for assistance.

Problem	Possible Cause	Solution
No display	Faulty display and/or display power supply	Contact supplier
Corrupted display (incomplete data)	Faulty display	Contact supplier
Alternating readings	Display picking up a signal from a neighbours' transmitter	Pair your transmitter and display again, see page 5
Data does not change	Incorrect installation	Refer to pages 6, 7 & 8
Costs reading seems excessively high or low	Correct tariff has not been set	Refer to page 9 – Adjusting your electricity price
Temperature gauge excessively high	Display too close to heat source	Choose a different location

If the information above has not resolved your issue please visit www.smartnow.com.au/support.html or email us at helpme@smartnow.com.au

Technical Information

Monitor Model: EnviR (Beta)
Product Size: 140mm x 170mm (base) x 105mm
Receiver: 433MHz SRD band
Sensor Coding Recognition: 10 channels
Subordinate Services: 24hr Clock / ˚C / PC Connectivity. All relevant CE approvals

Manufactured in China for Current Cost Ltd.

CE Approvals:
ETSI EN 300 220-2 V2.1.1(2006-04), EN 50371 2002, EN 301489-3 v1.4.1 2002-08, EN 60215:1989+A1:1992+A2:1994,
IEC 60950-1:2001(1st Edition) and/or EN 60950-1:2001+A11:2004

No 25039

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How to contact us

by email: info@smartnow.com.au
by phone: +61 (0) 3 916 3848 or +64 (0) 4 889 2848
by post: SmartNow, Joodalup BC, PO Box 1490, Joondalup DC, WA 6919

Further information is available at www.smartnow.com.au and www.smartnow.co.nz