

Installing Your Home Electricity Monitor

Please observe these precautions before using this product.

The ENVI/R **Home Energy Monitor** DOES NOT require you to carry out any electrical wiring. However, it's cable clamp sensor needs to be installed within the electricity supplier's power box. If you have any doubt about how to install it safely after reading these instructions, we recommend you consult a qualified electrician. Similarly, if you notice anything unusual in your power box regarding your electricity supply, such as loose wires, exposed cabling, burn marks or holes in the insulating materials, damage to your meter, then stop immediately and consult an electrician or your energy supplier.

At all times do not attempt to repair or service any part of the Home Electricity Monitoring equipment. [CONTACT US](#) for further help / assistance.

- Do not immerse the product in water, or any other liquids.
- Do not expose the product to heat, flame, steamy conditions or extreme cold.
- Do not open the equipment or touch any of its electronic circuitry.
- Do not hit, strike or drop the equipment - if the display gets broken, take special care not to touch the liquid crystals.
- Do not use this product for any purpose other than for which it was intended.

What's in the box

1. LCD Electricity Monitor Display [Aussie Cents Version].
2. Wireless Transmitter [Black Box].
3. Cable Clamp Sensor/s [Black & Red].
4. Aussie 240v Power Connector.
5. Printed Instructions.

How to install

Pairing the display and transmitter

1. The LCD display and wireless transmitter need to be 'paired together'. This in layman's terms, means the transmitter and LCD display can talk to each other, via the wireless connection. Connect the LCD display unit's power cable to the socket on the back of the LCD display unit and plug into a 240v power outlet.
2. If the display shows '0 watts' the display doesn't need pairing, as it has already be done. If it does show dashes the monitor and transmitter need to be paired. If your components are paired, you will still need to perform option 3.
3. Carefully pull out the plastic clear tab, marked 'Remove Before Using' from the battery department of the transmitter, to activate the battery. The transmitter will now flash every six seconds.
4. For Pairing : Locate the tuning 'push switch' in the centre of the black wireless

- transmitter. This is on the front face of the unit at point centre. Using a ballpoint pen, push and hold the switch for nine seconds. Upon releasing the red light on the transmitter will rapidly flash for a minute. If it doesn't flash, try the process again
5. For Pairing : While the light on the wireless transmitter is flashing, press and hold the 'down' button on the display* until the LED flashes (about 3 seconds). When you release the button the screen will show a tuning signal indicating it's tuning itself to the transmitter. Once tuning is complete your display will clear and return to normal operation i.e. Energy Now : Cost : Time : Temp etc.
 6. **Note there will be no data shown on the LCD as the cable clamp sensor & the wireless transmitter have yet to be connected.**

Connecting the cable clamp & wireless transmitter

1. Take the wireless transmitter and its cable clamp sensor to your mains meter power box. Select the thick round red wire from the meter or from the main fuse that leads to your house. Ensure there is room around the wire for the cable clamp to encircle the wire. Unlock the clamp by pressing your finger nail on the lower part of the clip [Above the sticker]. The clamp will open. Place the clamp around the wire and before closing make sure that the unlocking side of the clamp, is facing outwards. Allowing you to remove the sensor cable clamp in the future. For a 3 phase supply you will need to place a cable clamp sensor around each of the three main cables.
2. Find a clean place in the meter box to attach the wireless sensor's transmitter box, using the double sided sticky Velcro on the back of the transmitter. If your power box suffers from direct heat from the Aussie sun, you may wish to place the wireless transmitter in a horizontal position, i.e. on-top of the meter or at the base of the power box, should the adhesive on the double sided Velcro fail. This will stop the transmitter from falling to the bottom of your power box and suffering damage!
3. Plug in the cable clamp's plug into the middle socket [labeled no. 1] at the base of the transmitter box. For 3 phase you will be using the two remaining sockets for phases 2 & 3.

Solar PV Installation

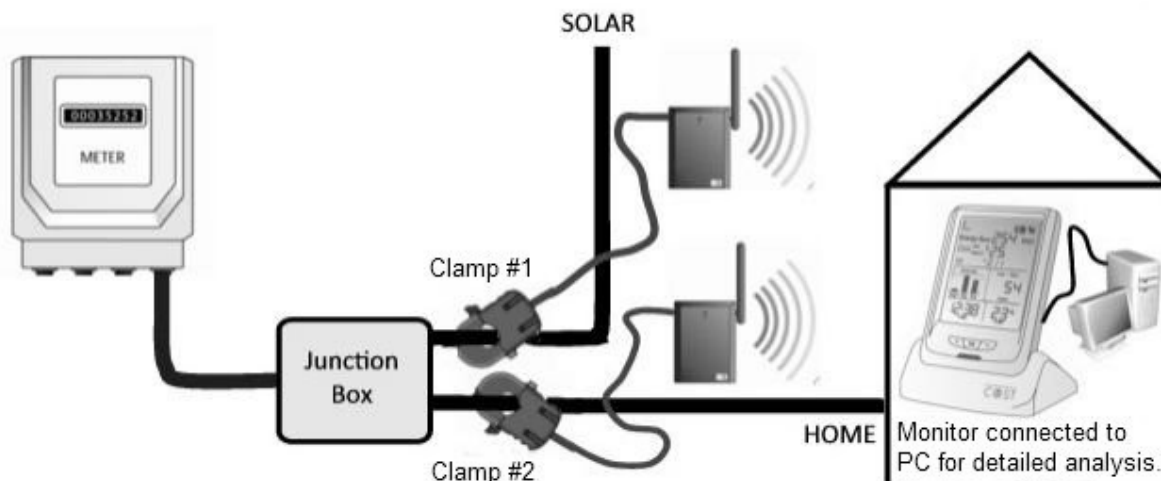
It is important to realise that a current clamp, cannot determine the directional flow of electricity. Therefore it's important when installing the current clamps on a solar system, to make sure they're 100% in the correct location.

In order to gain a reading of the home's consumption with a solar system installed, the clamp measuring the home's consumption, needs to be installed on the house side of the main switch, after the solar feed has joined the feed from the main switch, but before the power goes to the circuit breakers.

In this position the power being measured will be the power consumed by the home, either from the grid or solar system.

Where a second transmitter is installed to measure the power generated by the solar system, the clamp needs to be installed on the active wire between the AC output of the solar inverter and the circuit breaker on the switchboard. The solar array transmitter being tuned to Channel 1, for example.

Using Your Home Electricity Monitor With A Solar Photovoltaic System



The Home Electricity Monitor is easily used to measure your home's electricity use, along with generated electricity from alternative sources, such as a Solar Photovoltaic system.

As power can flow through the meter in both directions it is important to install the cable clamps as shown above. Clamp #1 measures the electricity generated by the solar array. Clamp #2 measures the electricity used by the household.

If you installed the monitor before having your alternative energy source installed, your clamp is most likely still situated in the powerbox at the main fuse. You will therefore need to move the clamp to the position of Clamp #2. Failure to do this will mean you are monitoring the electricity generated and electricity used by one clamp. This results in a meaningless reading.

Setting the clock on the LCD Display

1. To set the clock hold the OK button until the LED flashes (about three seconds), let go and the screen will clear and the clock hours will flash.
2. Use the up and down buttons to alter the hour (the monitor has a 24 hour clock). Once the correct hour is selected press the OK button.
3. The minutes will now flash, use the up and down buttons to correct the minutes. Press the OK to confirm. The LED light on the front will flash and the display will resume to normal operation.

Adjusting your electricity price

The unit may have been programmed with a default p/kWh unit rate. At the time of writing currently for Country Energy on the Mid North Coast NSW the rate is 22.12 per kWh. To make adjustments to match the rate you're paying, follow the instructions below:

1. On the LCD display push the up button for three seconds and release.
 2. Push the up or down to change from euros to cents.
 3. Press the OK button to confirm.
 4. The price will then start flashing (i.e. p/kWh). Push the up or down button to adjust the price of the electricity in cents. In the case above of 22.12 cents, this you will enter as 22.1
 5. Press the OK button to confirm.
 6. Now you can enter the '2' where you like to be very exact.
 7. Press the OK button to confirm.
 8. The LED on the front of the monitor will flash and the display will resume normal operation.
- TIP: The LED light will flash at the end of each stage of the programming to show you that you have successfully completed that section.

Advanced Features

There are several electricity tariffs available, if you pay different kWh unit rates for electricity consumed at different times of day, the monitor can be set up to allow this.

1. Press and hold the up and down buttons together for three seconds and release.
2. You will then see the clock flashing. Using the up and down buttons you can now set the time that your low rate starts. Press the OK button to confirm.
3. Using the up and down buttons you can now select your low rate cost. Press the OK button to confirm.

Benefits Of The Home Electricity Monitor

The beauty of this monitor is that it shows you how much electricity you're using right now. It shows how much your electricity use is going to cost every day, week, month!

Learn To Alter Your Behaviour!

The monitor may save you money on its own, but you also need to change your habits. Check the monitor's display regularly. If it shows your usage is high, it could mean there's something you can switch off, like a light bulb or an appliance on stand-by.

As you leave the house, it's good to check the display. It will show you exactly how much electricity you'll be using when you're not at home. Perhaps you'll be persuaded to 'double check' the home again for unwanted stand-by.

Aussie Home Energy – *Helping You Monitor Reduce & Save On Electricity Costs*

Check the display before you go to bed. Saving money whilst you sleep is sure better than spending it!

Knowing how much electricity is consumed in the home surprises most people. Knowing how much electricity is wasted shocks everyone! Especially when appliances are left on, not being used or left in 24/7 standby mode. You will get used to what your home and family's 'baseline' usage is. If it's suddenly higher, you'll know something's been left on. Compare your baseline power use to your friends!

Talking about 'Saving Energy & Reducing CO2' certainly beats talking about the weather!

For more information & [FAQ](#) on the Home Electricity Monitor visit our website.

The latest version of this document can be found on the [SUPPORT](#) page. The password for the online version is: *co2reduction*