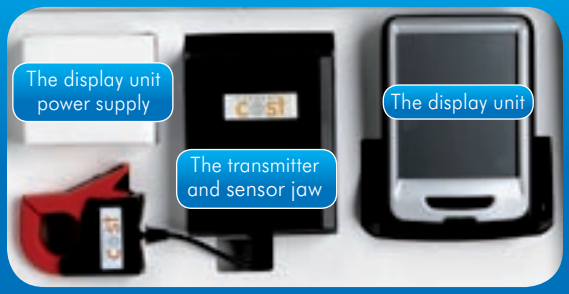
CC128 ENVI

helping to reduce your energy costs

CURRENT COST

have you got everything?

In the box you'll find:



quick set-up

Plug display into convenient wall socket, remove battery tab from underside of the black transmitter. If the display shows '0 watts' the display doesn't need pairing.
If it shows dashes the monitor and transmitter need pairing.Refer to 'pairing the display and transmitter'.

Take the transmitter and its sensor jaw to your mains meter; select the thick round wire from the meter that leads to your house. Ensure there is room around the wire and encircle the wire with the jaw. Connect the display unit power cable to the port on the back of the display and plug into a power socket.

setting the clock

To set the clock hold the centre button for three seconds, let go and the screen will clear and the clock hours will flash. 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 centre button. The minutes will now flash, use the up and down buttons to correct the minutes. Push the square button; the LED light on the front will flash and the display will resume to normal operation.

pairing the display and transmitter

Locate the tuning push switch in the centre of the black transmitter. Using a ballpoint pen, push and hold the switch for nine seconds. Upon releasing, the red light on the sensor will rapidly flash for a minute. If it doesn't flash try again. While the light on the transmitter is flashing, press and hold the down button (on the far right) until the LED flashes. 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 operation.

The CC128 ENVI has added functionality to monitor individual appliances.

Individual Appliance Monitors (IAMs) are available from **Current Cost** to view the energy consumption of your white goods, televisions and Sky boxes as a handful of examples. Knowing the appliances that consume the most power can be effectively managed.

Another new function is the ability to connect the display to your PC. You can view historic data (up to seven years) and in real-time.

The data displayed is particularly useful for three phase users, two meter users and micro-generation (e.g. solar or wind turbine) as you can view each sensor jaw individually on a spreadsheet or graph. This is particularly useful for balancing phases and checking usage/generation in periods of absence.

how to contact us

If you have any questions about using your **CC128 ENVI** or if you'd like further advice on energy saving at home, please feel free to contact us:

By email
info@currentcost.com

By phone
Call us on 01483 604517

By post
Customer Services, Current Cost Ltd, 1 The Mews, Wharf Street, Godalming, Surrey GU7 1NN

Plus, further information is also available at www.currentcost.com.

doing your bit

A big thank you for taking the decision to reduce your energy use (and your electricity bill). The planet needs more people like you. In fact, it needs us all to be like you. If we all do our bit to stop wasting electricity we can reduce our CO_2 and together help the planet by cutting our emissions.

It starts with every one of us doing everything we can to reduce our use of electricity. And that's where your CC128 ENVI can help. It won't cut your fuel bills on its own. That's your job. But it can show you how much energy, and money you're wasting, and help you change your habits.

To assist you in the task of saving energy and money, we suggest you study this manual.

we might even save the planet

how you can help

The beauty of the **currentcost** display is that it shows you how much energy you're using right now. And it also shows how much it's going to cost you every day and every month, so when you change your behaviour.

"It will save you money."

We suggest you check the display regularly. If it shows that your usage is high, it could mean there's something you can switch off like a light bulb or an appliance.

As you leave the house, it's a good idea to check the display. It will show you exactly how much electricity you'll be using even when you're not at home. Perhaps you'll be persuaded to switch off the TV instead of leaving it on stand-by.

"Check the display before you go to bed."

How much money will you spend while you're asleep? And what could you save?

At night your usage should be at its lowest. It's the best time to work out what you're wasting. If it's similar to the day, then you may need to turn of appliances from standby etc.

For instance you may even find how much energy that old freezer is using, it could be time to change!

energy saving ideas

1. Switching off your TV and computer instead of leaving them on standby could save you around £30 a year. If you have kids, why not get them involved and encourage them to switch off all their gadgets?
2. Boiling only the amount of water you need for your cup of tea could save you £25 a year
3. Wait until you have a full load before switching the washing machine on, two half-loads will use more energy than one full and whenever possible use the 30 degree cycle
4. Not using your tumble dryer during the warmer months of the year could save you around £10 a year
5. Switch to energy saving light bulbs. Just one 20W bulb can save you £60 over its lifetime, compared to a standard 100W one
6. When buying products that use energy, anything from light bulbs to fridge-freezers, look for the Energy Saving Recommended label or European energy label rating of A or higher
7. Defrost your freezer regularly and avoid putting hot food in the freezer
8. Turn down your thermostat and immersion heater temperature by one degree – the savings will be significant and you are unlikely to notice the difference
9. Lag your hot water tank and insulate hot water pipes. Tank jackets cost from just £12, they're simple to fit and could pay for themselves in 6 months
10. Why not top up your loft insulation? Did you know that the recommended depth is 270mm? Cavity wall insulation and topping up your loft insulation in your home will not only reduce the heat escaping from the roof and walls – it could also save you up to £180 per year
11. If your boiler is over 10 years old, replacing it with a high efficiency condensing boiler with heating controls could save around £210 per year

All statistics provided by DEFRA based on CERT calculations and relate to an average 3 bedroom semi-detached home. For calculating overall savings to the UK it has been assumed that all households with less than 150mm loft insulations would top up their insulation, all houses with empty but fillable cavities would insulate them, all houses would stop using standby, and CFLs (energy saving light bulbs) would be used in all suitable fittings. All figures correct at time of going to print February 2009.

1. Source: DEFRA 2. Source: DEFRA. Savings based on 5 kettles a day boiling 1 litre more than necessary each. 4. Savings based on a dryer using 3.5 kWh of electricity per cycle. 5. DEFRA. 9.Source: DEFRA. Based on £12 heating around 1700 litres of water by electricity to 60°C.
10. Source: DEFRA. Calculated based on £30 saving for filling a cavity wall.

3, 6, 7, 8, 11. Source: direct.gov.uk

about ACT ON CO_2

ACT ON CO_2 helps people and businesses save money, energy and reduce their CO_2 emissions. The campaign highlights how individuals can act to make a difference.

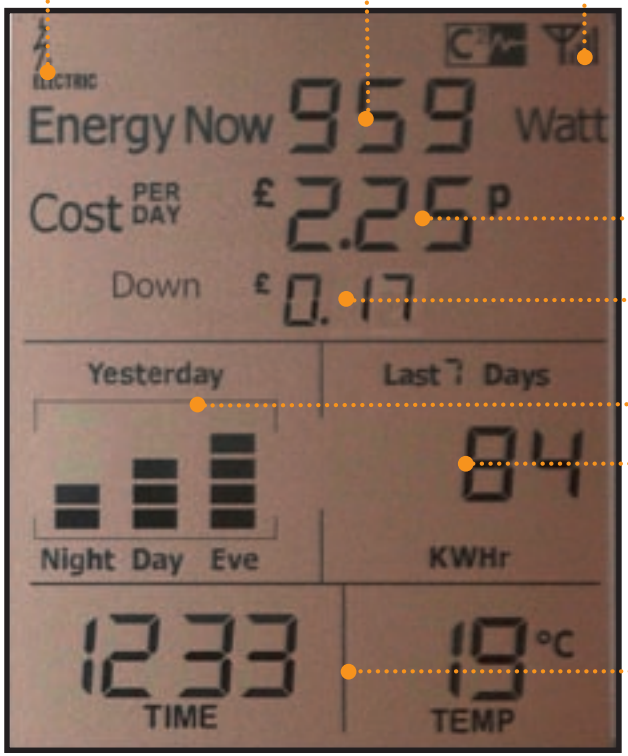
It is a cross-government initiative, involving DECC (Department for Energy and Climate Change), DEFRA (Department for Environment, Food and Rural Affairs), DfT (Department for Transport) and DCLG (Department for Communities and Local Government).

The campaign is part of the government's commitment to taking action on climate change, working with businesses and individuals in order to reduce CO_2 emissions.

To find out your carbon footprint for your home or business, visit www.direct.gov.uk/ACTONCO2.

using all the functions

When your **CC128 ENVI** is properly installed, you'll see a screen that resembles this:



- Aerial icon confirms information is being read from the transmitter
- Indicates the number of sensor jaws installed. For most domestic situations this will be one
- The top line of the display shows you how much energy you're using right now. Test it out by switching a light on and off and watch the figures as they change
- The second line down shows how much money you're spending. It will also change as you switch electrical goods on and off. The figures change automatically to show how much it will cost you per day and per month - if you neglect to turn off your appliances
- The third line shows you how much you save when you turn an appliance off, or spend as you turn it on. It also shows you the equivalent decrease or increase in energy usage
- This graph shows you how much energy you have used between 7am – 3pm during the previous day, 3pm to 11pm the previous evening and 11pm to 7am the previous night
- This shows you your accumulative energy in kWh and scrolls every ten seconds between the last day, the last seven days and the last 30 days. You can also scroll through these using the centre button
- The time and the temperature are displayed at all times.

safety and care of your monitor

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

The CC128 ENVI display does not require you to carry out any electrical wiring. However, the transmitter is to installed at the meter near the electrical supply to your property. If you have any doubt about how to install it safely do not attempt to install it yourself, but consult a qualified electrician.

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 an electrician.

- **Do not attempt to repair or service any part of the CC128 ENVI equipment. Contact our customer service department for 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**

IAMs and PC connectivity

In-home, real-time individual appliance monitoring is a world first and a great addition to the **currentcost** display. Using simple and easy to use plug-in monitors, they transmit to the display the number of watts consumed and the cost for running an appliance. Such technology is also great to track the decline in energy efficiency of products, for example a ten year old freezer can cost an extra £45* a year in electricity compared to a new A rated appliance.

PC connectivity, and the availability of software allows you to compare usage with other monitor users, track the reduction in energy use in the home and see the energy consumption when you're not at home. Giving users a broader picture of electricity use educates and informs, making the energy monitor even more effective in the home.

Software developers have been using the monitor to create new applications to add value to the product, and if you register your monitor online at www.currentcost.com you can receive free updates as well as software downloads.

*Source: E.ON

adjusting your electricity price

The unit has been programmed with a default p/kWh unit rate. You may wish to adjust to match the rate you are paying. To do this follow the instructions below:

- On the display push the up button and release
- Push the up or down to change from pounds/pence to euros/cents
- Press the centre button to confirm
- The price will then start flashing (i.e. p/kWh). Push the up or down button to adjust the pence/cents price of the electricity
- Press the centre button to confirm
- Repeat this process with the pence/cents option
- Press the centre button to confirm
- The display will resume normal operation.

Advanced Features

There are several electricity tariffs available, if you pay different kWh unit rates for electricity consumed at different times of day, the CC128 ENVI monitor can be set up to allow this.

- Press and hold the up and down buttons together until the LED flashes and release
- Using the up and down buttons you can now select your low rate cost. Press the centre button to confirm – if you don't change the cost, you will not see the time section
- 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 centre button to confirm
- Using the up and down buttons you can set the time your normal rate starts. Press the centre button to confirm
- Using the up and down buttons you can now select your normal rate cost. Press the centre button to confirm
- The display will resume normal operation.

Current Cost accessories

To complement your CC128 ENVI, and to ensure you understand your energy consumption there are a number of accessories available from Current Cost.

An Individual Appliance Monitor (IAM) allows the CC128 ENVI to display the energy consumption of your household appliances.

The CC128 ENVI can pair with up to nine IAMs so you can discover which household appliances are energy hungry.

Data cables are available so you can connect CC128 ENVI your PC to you can track your energy history by up to seven years, and see how your home is behaving when you're on holiday.

Additional transmitters and/or sensor jaws are available should your home or business work off two meters or monitor a three phase.

All accessories to work with your CC128 ENVI equipment are available via www.currentcost.com.

troubleshooting

Your **currentcost** 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 inside front cover
Data does not change	Incorrect installation	Review quick set-up guide
Costs reading seems excessively high or low	Correct tariff has not been set	Refer to page 8
Temperature gauge excessively high	Display too close to heat source	Choose a different location

If you can't fix the problem on your own do not attempt to repair the equipment.
Disconnect it and email us at: helpme@currentcost.com
Visit our website www.currentcost.com to view the FAQ's.

further information

If you require technical specifications, video tuition to set up your CC128 ENVI, or more ideas on how to cut energy use in your home or at work, visit www.currentcost.com.

about Current Cost

Current Cost aims to change people's habits when it comes to energy. This doesn't mean not using the gadgets and appliances you've invested in, but understand your energy use and the small steps you can make to cut wasted energy.

The **currentcost** display allows you to do this and with the advanced features of the CC128 ENVI, you can monitor how energy hungry individual appliances are.

If we all make small steps to cutting energy wastage we can cut our carbon footprint and ensure the future of the planet for generations to come.

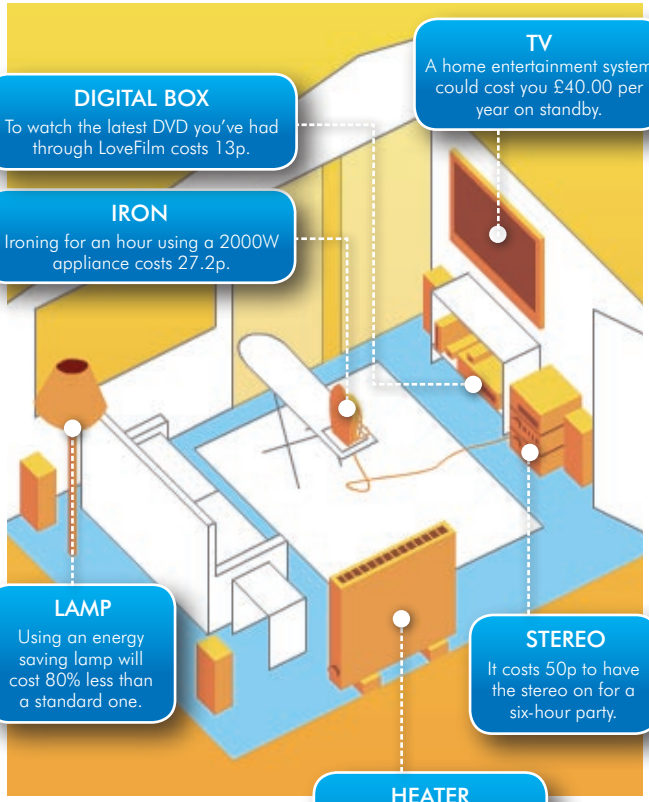
C^2 Technology

Wherever you see the C^2 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 organisations. When buying a C^2 product you can buy knowing your equipment can communicate with each other, and is of the highest standard.

C2 433MHz enabled

virtual house



www.currentcost.com

Sources: E.ON, Energy Sense and Energy Saving Trust

A big thank you for taking the decision to reduce your energy use, *(and your electricity bill).* The planet needs more people like you, in fact, it needs us all to be like you. If we all do our bit to stop wasting electricity we can reduce our CO_2 and together help the planet by cutting our emissions of greenhouse gases.

together we can help the planet

CURRENT COST

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

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