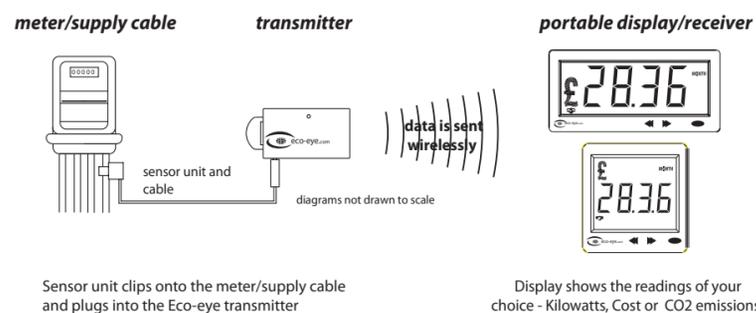


Instructions for Eco-eye Elite and Mini

Remember:
1 kW = 1000 watts,
1000 watts for 1 hour duration = one kWh
1 kWh = 1 unit of electrical energy

1. Overview

Eco-eye consists of a sensor, transmitter and receiver/display unit. The sensor clips around the incoming supply cable, usually at the meter or fuse board, and monitors the total current passing through it. This is done by the user without disturbing or cutting any wiring and without the need for a qualified electrician. The sensor plugs into the transmitter unit and the data is sent wirelessly to the receiver unit which translates it into meaningful information - Kilowatts, Amps, Cost or CO2 emissions.



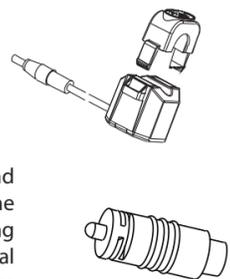
2. The Sensor

The standard sensor is of a two part construction and clips around any live cable up to 13mm in diameter. Typically this will be found on the far right of the meter and coloured or marked with red or brown. If the meter is situated remotely or in an external box, the sensor can either be fitted onto the cable at the meter or inside the property where it enters the fuse board. The latter is preferable in order to minimise signal loss.

- The sensor unit may buzz, especially when not connected to the transmitter; this is perfectly normal.
- Eco-eye will only work with individual cables (i.e. not multi-core cables) and is therefore not intended for the direct monitoring of individual appliances.
- Do not force the clip to close around a cable which is too large. It is essential that the faces of the sensor on both sides of the clip make contact with each other.
- The sensor is intended to be a loose fit around the cable. Alternative sized sensors are available on request.

Standard Size

- Suitable for cables up to 13mm in diameter.
- Press the sides to separate the two parts.
- Place around cable and click shut.



Live electricity cable tester

This is supplied to ensure that the sensor is clipped around the correct electricity cable. When fitted to the end of the sensor cable, this device should illuminate if the cable being monitored is live. This item is not required for normal operation - the sensor plugs directly into the transmitter as detailed above.

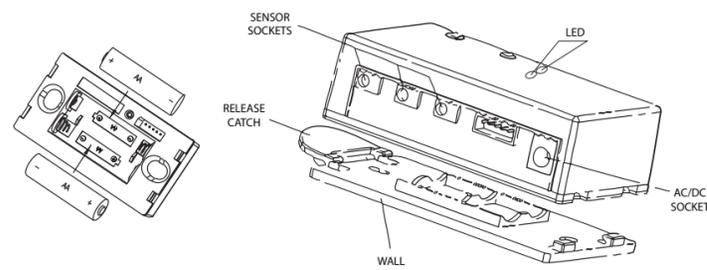
Note - No harm will be done to Eco-eye or to the electricity supply if the sensor is inadvertently fitted around an incorrect cable.

3. The Transmitter Unit

Press the release catch to remove the wall plate from the transmitter and using the self-adhesive pads supplied or screws (not supplied) affix in a convenient position close to the cable being monitored. Ensure the release catch is positioned to the left side.

Fit 2 x AA batteries into the transmitter ensuring the correct orientation and polarity (see below). The LED should initially flash twice (brightly) and then emit a regular 4 second low intensity flash.

NOTE: The LED light flashing every 4 seconds indicates that the wireless signal is transmitting correctly. A solid light indicates that an irregularity has been detected. In this situation, remove the batteries and recommence the start up procedure.



ONLY NOW SHOULD YOU FIT BATTERIES TO THE RECEIVER UNIT

4. Receiver/Display Unit - Elite or Mini

Remove the battery cover and insert 2 x AA batteries, ensuring correct orientation/polarity. (See figs 1 and 2 below). Replace the battery cover. After a short power-up routine the unit will require input of the current time in 24 hour format. Change the minutes using the arrow buttons and then press Oval Button A to store. Change the hours using the arrow buttons and then press Oval Button A to store.

If the sensor and transmitter units are connected correctly, the Eco-eye receiver will now automatically display the current kW reading. A handshake icon will also become visible at the bottom left hand side of the screen and 'blink' every time an incoming signal is received.

NOTE: ALL ECO-EYE UNITS CAN BE POWERED WITH THE OPTIONAL AC/DC MAINS ADAPTORS. THE SOCKET FOR THE TRANSMITTER IS LOCATED TO THE FAR RIGHT OF THE SENSOR SOCKETS. THE SOCKET FOR THE ECO-EYE MINI DISPLAY IS FOUND ON THE SIDE OF THE UNIT. THE SOCKET FOR THE ECO-EYE ELITE IS LOCATED UNDER THE BATTERY COVER.

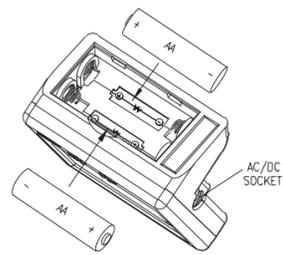


Fig. 1 - Eco-eye Mini underside showing battery compartment

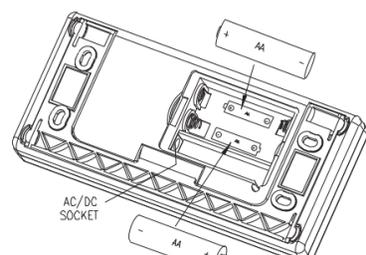


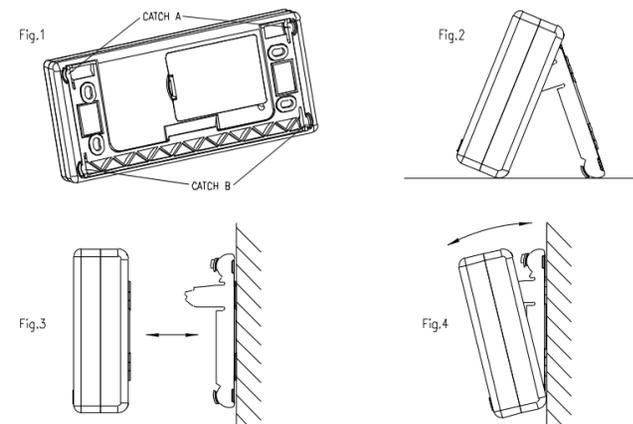
Fig. 2 - Eco-eye Elite reverse showing battery compartment

5. Eco-eye Elite Display Mounting Options

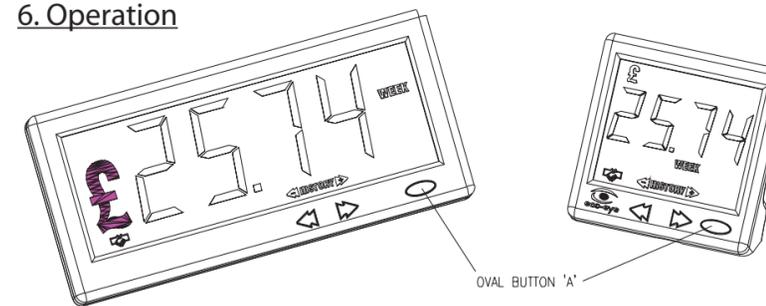
Free-Standing Option: Release catches at B (see fig. 1) and gently pull out the hinged stand until it clicks into the open position. Eco-eye can then be used on a table, desk or other flat surface (as in fig. 2).

Wall-Mounted Option: Release catches at A and B (see fig. 1) and gently remove the mounting frame. Fit the mounting frame to the wall in the required position using the adhesive pads (supplied) or screws. Present Eco-eye squarely to the mounting frame until catches A and B are lined up and can latch into position. (See fig. 3)

Alternative wall-mounting option: Once fitted as above, Eco-eye can also be pivoted forward (see fig.4) until a 'click' is felt. This option is ideal for mounting your unit at a higher level on the wall. NOTE: Eco-eye must be returned to the standard wall mounting position before it can be removed from the mounting frame.



6. Operation



Eco-eye can display information in a number of ways:

- KILOWATTS/HOUR*
- COST PER HOUR*
- COST PER DAY *
- COST PER WEEK*
- COST PER MONTH*
- COST PER YEAR*
- KG CO₂ discharged into atmosphere
- TIME
- AMPS*
- TEMPERATURE

* real time, accumulated and historical data
 Pressing Oval Button A displays all selected options sequentially (configured by using menu Option 6)

NOTE: All cost displays can be substituted with kWh using Option 6 in programming mode.

7. Historical Data

Use the history facility to view:

- Actual ACCUMULATED usage in the displayed time period e.g. when in COST PER DAY mode, the first value shown whilst in HISTORY is for the actual cost of electricity you have used since midnight.
- there are a further 31 entries of saved historical data for each time slot mode.

NOTE:

Year mode history has a reset facility allowing measurement over any given period - see Option 10 in the Menu selection.

How to access HISTORY:

- To enter HISTORY mode, press the left Arrow button once. The flashing 'HISTORY' icon will appear to signify ACCUMULATED history mode. This mode shows the actual usage in the current time period (i.e. hour/day, etc) and if left in this mode the display updates in real time.
- Further historical data can now be accessed in two ways:
 - By using OVAL BUTTON A to scroll between the accumulated values for all modes. i.e. kW, Cost and CO₂ etc.
 - By using the left and right arrow buttons to scroll between the 32 data entries for a particular time period selected - e.g. all logged data for cost per month for the last 32 entries i.e. 32 months. Each time slot value is preceded by -1 -2, -3... -31 which will appear briefly before the value for that completed time period. Whilst Eco-eye is in this mode the word HISTORY will be solid and will not flash. The word 'nonE' is displayed when there is no recorded data. After 15 seconds of inactivity in history mode the unit will return to standard real time operation. When in accumulated mode (flashing HISTORY) use the right arrow button to return to real-time operation.

8. Programming Eco-eye

To enter programming mode press and hold Oval Button A until the SET icon is displayed. Then release the button.

Use the left and right arrow buttons to choose the values or option for the chosen mode and press Oval Button A to set.

To exit programming mode: Change to option 000 then press oval button A. The battery voltage is shown followed by the firmware version number before the display returns to real time operation.

Whilst in any menu option, 10 seconds of inactivity will cause the unit to return to the option selection mode without saving any changes. You must press Oval Button A to save your changes.

The unit will return to normal real time operation following 60 seconds of inactivity whilst in programming mode.

Option 001 - Setting the time.

Although the time should be set when batteries are initially installed in the unit, it can also be changed using this option.

Option 002 - Setting the cost of a standard unit of electricity.

Unit cost can be found on your electricity bill.
 NOTE: THE DISPLAY IS TO 3 DECIMAL PLACES FOR GREATER ACCURACY. I.E. 10.5 PENCE PER UNIT IS DISPLAYED AS £0.105. Select each digit with the arrow keys, and then press the Oval button to move to the next digit.