

Eco-eye Smart

Satisfies your need for more advanced information

Key Features:

- ✓ Unique traffic light load indicator
- ✓ Graph for own chosen targets
- ✓ Reset feature
- ✓ USB interface for real-time feed to PC or network
- ✓ Incorporates MMC card reader for up to 10 years of data
- ✓ 2 year plus battery life
- ✓ Firmware upgradable



Available soon with Eco-eye Smart :
Our self-powered all in one sensor/transmitter which eliminates the need for batteries

Eco-eye Smart is at the very centre of our new and evolving family of domestic and commercial energy monitoring products. It is simple to operate whilst allowing the user to display and analyse the data received in detail, with or without connection to a PC or computer.

Like all Eco-eye monitors, the large and uncluttered screen features a single numeric value for each display option and allows the user to easily view their preferred mode (KW, Cost, Amps, etc.) with any time period (hour, day, week, month or year). The unit also has a resettable 'counter' mode which allows the user to measure usage over any time period.

Eco-eye Smart is a 'wire-free' device that utilizes cutting edge micro-power technology avoiding the need for a mains power connection whilst still retaining the fastest update rate of any monitor. Eco-eye Smart updates every 4 seconds – that's over 20,000 updates a day - yet a pair of standard batteries in the display and sensor will provide an estimated life of around 2 years.

Why battery powered? Being wire-free enables Eco-eye Smart to be positioned anywhere in your home or business premises and allows the user to move freely around seeking out those power hungry devices. There is also an option to use AC mains adaptors at the sensor and receiver if preferred. All incoming transmissions are signified by flashing one of the three LED 'traffic lights' to indicate whether the current load is in line with the user's chosen settings.

The user can input their own total daily usage target (KWh) which is constantly displayed graphically – there is also a real-time mode which displays the actual percentage of target used and is updated every 4 seconds.

Eco-eye Smart is able to transfer data to a PC, either in real-time using the USB interface cable* or with data logged to an MMC card* (*optional items). The MMC card has a capability of storing up to 10 years' data at a resolution of 4 seconds granularity and can be analyzed in close detail using our open source 'Trax' software.

Eco-eye Smart is also firmware upgradable by the user and is equipped with transceiver technology enabling bi-directional wireless data transfer to ensure that it remains compatible with the evolving Eco-eye energy management product range.

Efficient technology for today's world



Eco-eye Smart Features:

- Large, clear, uncluttered screen with bold numerals and icons
- robust but stylish and portable display unit
- 2 year battery life - uses 2 x C Cell batteries
- Fast update rate – every 4 seconds
- Graph showing actual usage compared to personal usage target
- Unique traffic light high usage indicators (LEDs) which shows instant power readings in relation to individual targets set by the user. A red, amber or green light flashes on every data transmission and provides a clear visual indicator whether the target will be achieved
- Reset facility enabling use to define own time period for specific monitoring projects
- Graphical representation of user's own chosen daily target for easy interpretation of data
- Memory card socket –using our own optional Smart MMC card data can be read in any standard SD card reader for detailed analysis on a PC using our free TRAX software or can be converted for use in third party systems. The Smart MMC card can hold in excess of 10 years of data at a 4 second record rate
- Data interface socket - use our optional data cable to feed real time information to a PC or network via our TRAX software – allowing you to export data to programs such as EXCEL
- Exclusive - new firmware for upgrades and bespoke applications can be downloaded via a data cable or MMC card
- 4 second update on all modes of data – fastest refresh available
- compatible with single and multi-phase supplies (additional sensors required)
- push buttons with audible warning

Eco-eye Smart displays data graphically and can show the actual percentage of target used



Side view showing MMC card in card reader and data cable port

Other features

- Works with (optional) AC mains adaptor
- Choice of currency £, \$, € or pictorial money icon
- Fully variable voltage and CO₂ values enabling high level accuracy
- Usage displayed in cost, kW, Amps, CO₂ emissions in real time or accumulated modes
- Programmable for single tariff (multi-tariff using TRAX software)
- Compatible with single and multi-phase supplies (additional sensors required)
- Measures supplies from 0.2 amps up to 200 amps per phase



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Technical Specification

Smart Receiver/Display Unit

Description: LCD display unit with 5 push buttons, LED traffic light system and 4 digit (plus 2 x zero), numeric readout. Display automatically adjusts resolution i.e. 3 decimal places up to 10kw, 2 decimal places 10 - 100kw etc. Incorporates an MMC card slot and data cable socket for use with a PC or computer.

Battery Voltage: 2 x C Cell, Optional use of AC/DC adaptor

Battery Life: Up to 2 years subject to signal quality
(has low battery indicator)

Shows: KW, Amps, Cost, KgCO₂, Time,
Temperature in °C at the display.

Periods: Hour, Day, Week, Month and Year

Modes: Real time, Accumulated, History

Currency Options: £ \$ € and pictorial icon

Tariff: Single (up to 6 with TRAX software)

CO₂ emissions: Programmable by user

History space: 128 days

Materials: Casings made from ABS

Dimensions: 138 mm x 70 mm x 38mm

Display size: 114 mm x 43mm

Character size: 40mm high

Use: Freestanding or wall mounted



Sensor Unit

Two part split core transformer

internal Diameter: 13 mm

Casing Materials: ABS

Measuring current of sensor: 100 Amps (200 Amp larger sensor available)



Transmitter Unit

Two part construction with free-standing/screw fix back plate LED & switches.

Sensor Sockets: 3, with option for alternative sensors and serial output.

Dimensions: 90 mm x 50 mm x 27mm

Casing Materials: ABS

Frequency: 433MHz radio band (Choice of 30 channels)

Battery Voltage: 2 x AA for transmitter, 3V nominal. (2V2-3V3)

Optional use of AC/DC adaptor

Battery Life: Approx. 12 months (with low battery indication)

Update rate: 4 seconds

Range: Maximum 40 metres subject to site conditions



Eco-eye products are designed and manufactured by Modern Moulds and Tools Ltd, Lancing, West Sussex, situated on the south coast of England. Eco-eye is a division of the company.

If you require further information on Eco-eye products, we would be very glad to hear from you.

Tel: 00 44 (0) 1903 851905

Fax: 00 44(0) 1903 851907

Email: info@eco-eye.com

Modern Moulds and Tools Ltd
Lancing, West Sussex,
BN15 8TA, United Kingdom.



Founded in 1982, Modern Moulds and Tools Ltd is part of the Modern Moulds Group and is a major supplier of mould tooling to the OEM sector. 1996 saw the introduction of the moulding division, Whistlestop Plastics Ltd.

The Modern Moulds Group now employs over 50 staff and continues to supply tooling and moulding to major OEM customers as well as producing a number of in-house products, including the Eco-eye range.



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