intropack
energymanagement

A range of switches, timers and detectors - saving energy and increasing convenience

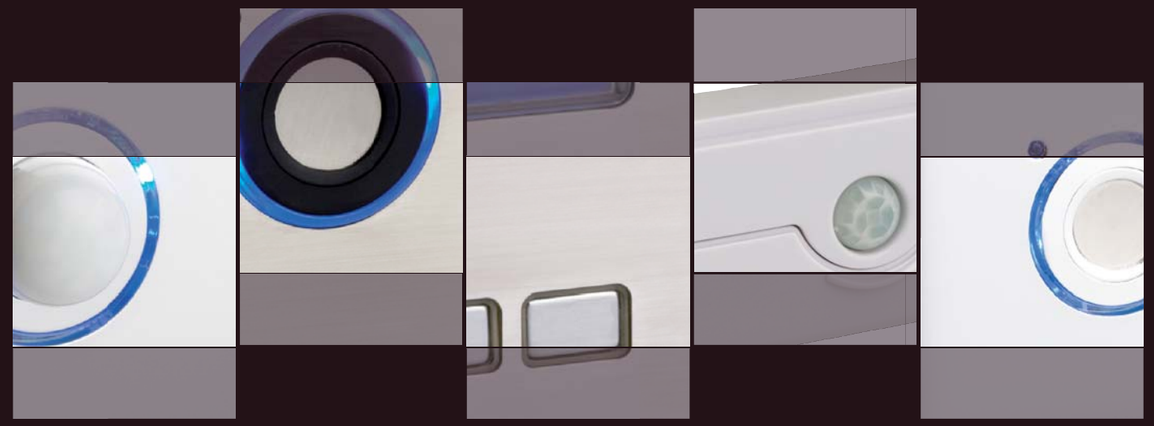
energysense

energystyle

energyoutdoor

Elkay Electrical has built a reputation at the forefront of electrical manufacturing with a range of energy management products that can be used to control a variety of power and lighting sources within the home, commercial or industrial environments.

energysense **energy**style **energy**outdoor



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time to make a difference

time to make a difference

Elkay is one of the UK's leading manufacturers of energy saving products. If you are not already familiar with our wide range of timers, switches and controls, which are both stylish and highly functional, there are now more reasons than ever why you should be talking to us...

Climate change and corporate responsibility

There's no escaping talk of global warming and climate change at the moment but this topic is no longer the preserve of pressure groups and eco-warriors.

The UK Government takes has legally binding targets for the UK to reduce carbon emissions by a massive 60% by 2050. The overarching Climate Change Bill of 2005 sets out the key objectives, sets the timelines and introduces the mechanisms through which the target will be achieved.

Amongst the measures put in place are SAP ratings, Energy Certificates for Buildings and the setting up of the Carbon Trust Standard, which certifies that an organisation has genuinely reduced its carbon footprint, along with the revision of Part L Building Regulations, which will set maximum carbon dioxide emissions for new building development.

This is quite apart from the growing public pressure on all organisations to demonstrate their 'green' credentials.

So how can Elkay help?

Utilizing our considerable expertise in the field of energy saving switches and controls, Elkay has developed the **energy**range specifically to provide significant energy and cost savings across lighting, heating and other load applications. The range has been designed to be retrofitted into existing buildings which allows the products to be introduced quickly , with minimum disturbance and reduced installation costs. The range encompasses three product categories – **energy**sense, **energy**style and **energy**outdoor.

The **energy**sense range is designed to save energy and cost while offering lots of functionality. It incorporates timer switches from the Columbus® push-button pneumatic timer through a whole series of electronic and remote timers, with a full range of options.

energystyle is a unique range of energy management products which offer the dual advantage of being highly stylish and technically advanced. Products include Customlight - a fully programmable lighting control which allows the user to set lighting levels through electronic dimming and appropriate "on" times through a 7 day 24hr control sequence , and Welcomelight – a retrofit PIR and security timer which fits behind an existing light switch immediately enhancing its capabilities. The range also includes KeyCard and KeyTag, energy management isolation switches, which ensure electrical devices cannot be left "on" in unoccupied rooms.

energyoutdoor units are specifically designed for outdoor applications and benefit from all the operational and timing features of the other Elkay ranges, but with an IP66 ingress protection rating as standard.

Tested and certified to BS EN60669, the **energy**range offers the very best in terms of aesthetics, energy management and usability. During the development of the range, Elkay was granted several patents for new technologies, including the unique method of switching 16 Amp, regardless of load type – a market first for time delay switches. What's more, the whole range affords retrofit capability so it can be used to upgrade existing systems easily.

How can I tell if my organisation could really benefit?

Because every workplace is different, Elkay has devised a simple seven step programme which will show you what can be achieved and enable you to start saving energy and money as quickly as possible:

1. Initial Meeting
2. Energy Survey
3. Trial Location
4. Monitor Progress
5. Roll Out Plan
6. Introduction of Contractor
7. Start saving

1. Initial Meeting
We'll introduce you to one of our trained representatives who will guide you through the entire process. Initially the representative will introduce you to the Elkay product range, and then demonstrate how the products would make immediate savings on your energy bill by utilising simple examples from your own building.

2. Energy Survey
As part of our service Elkay offers an Energy Survey option for a building – for multiple locations see Trial Location below - assessing what products are already in place and what potential savings can be made to the energy bill with the installation of Elkay products. This is a quantative and qualitative process and deals with the "real" circumstances in each building. Following the visit a detailed report will be prepared showing the current output and the potential savings which could be made in kWh, £GBP and CO^2.

The Energy Survey details each individual room, along with an overall building summary, giving recommendations on product selection throughout and any other recommendations that might need to be considered during the installation. Often the energy survey is used by our customers to calculate the payback period to justify capital investment.

3. Trial Location
For organizations with multiple sites/facilities it is often appropriate to carry out trials at a single location/facility to evaluate the potential savings identified in the Energy survey. On identifying a site, Elkay's engineers will be on hand to talk with contractors to ensure they clearly understand the product installation procedures and answer any technical questions that may arise.

4. Monitor Progress
Once the installation is complete, we recommend that monitoring is carried out over a period of at least one month. There are many commercial energy monitors that can be installed to measure a chosen area or an entire building. These give an indication of real time energy consumption and allow meaningful comparisons to be made which can be used evaluate the effectiveness of the installation and the savings achieved.

5. Roll out plan
Our business development manager will guide you through the process of building a roll out plan to ensure products are readily available at the time you want to install them.

6. Introduction of Contractors

If you do not have a particular electrical contractor you wish to complete the installation work, you can leave that to us too. Elkay has, over the years, built up relationships with many large contractors who are experienced, not only with our product range, but also who have particular expertise in dealing with large, multi site businesses that operate throughout the day and even 24/7.

These contractors have perfected the installation of the Elkay product range and can even complete the work during the night, causing minimal disruption to your business.

7. Start saving!

As soon as the installation is complete, the benefits will quickly be realised. On average users find that between 10 – 15% of the overall energy bill is saved by turning the lights off in low occupancy areas and these effects can be seen instantly.

To find out how Elkay could make a real difference to your organization's energy bills call (name and contact details) email (name and email address) or visit www.elkay.com.

About Elkay

Part of the Cable Management Group Based in Coleshill in the West Midlands, Elkay has been specializing in energy management products since the 1980's. Certified to ISO9001 Quality Standard and BS EN ISO14001 Environmental Standard, Cable Management Group is based across two sites in the UK - Coleshill and Newtown - with operations also in North Amerca and Australia.

Cable Management Group encompasses four brands:

Elkay – switches and controls.

Adaptaflex – flexible conduit systems, non-metallic and metallic conduit and fittings, cable glands, connectors, terminal blocks.

Kopex – high specification flexible conduit systems and hazardous area cable glands, non-metallic and metallic conduit and fittings.

Harnessflex –automotive flexible conduit systems, non-metallic conduit and connector interfaces.

The company is an active member of BEAMA (British Electrical and Allied Manufacturers Association) and is a member of the Climate Change Steering Group

About climate change

Climate change is emerging as one of the great challenges for modern society. Although disputed in some quarters, there is a growing concensus on the causes of climate change; the world is warming, much of the warming is due to industrialisation which causes emissions of greenhouse gases (particularly CO^2), Models predict that climate change could accelerate in the future, bringing many and varied impacts around the world. This is why governments around the world are introducing measures that will reduce greenhouse gas emissions.

Over the past 140 years the earth's surface temperature (over land and sea) has increased on average by 0.6±0.2°C with the greatest increases occurring the second half of the last century; the 1990s were the warmest years in recorded history. Although this rise in temperature may appear small, it is scientifically significant and does have dramatic impacts on climate, for example Northern Europe is predicted to become wetter and the Mediterranean drier.

Since the 1950s scientists studying global warming have observed the retreat of mountain glaciers, a shrinking of the Arctic ice cap as well as a lengthening of the freeze-free season.

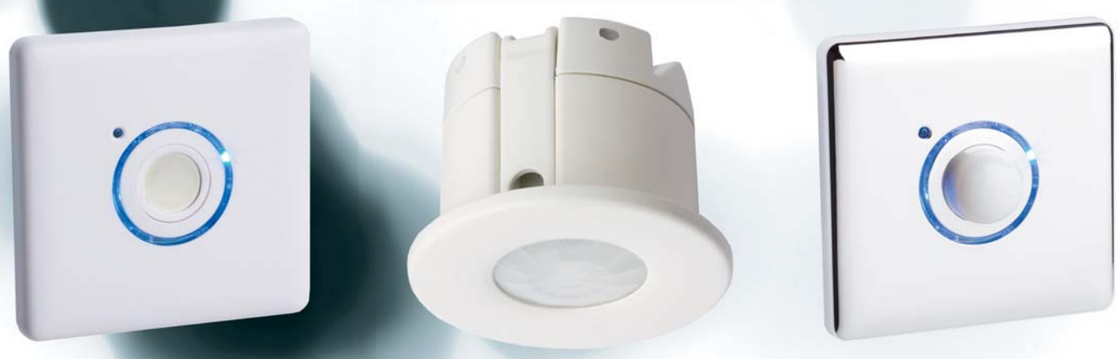
Warming increases evaporation and precipitation, and both aggregate rainfall and occurrences of 'heavy precipitation events' at European latitudes - the principal cause of flooding - has also increased in recent decades. There is also evidence that the frequency and intensity of storms is increasing in certain areas.

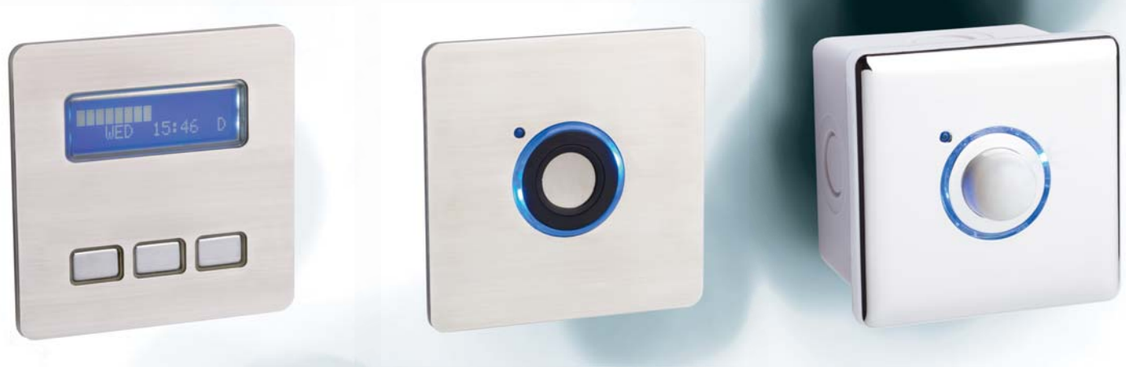
Government policy on climate change

The 2003 UK Government's Energy White Paper set an aspiration for the UK to reduce carbon emissions by 60% and create a low carbon economy by 2050. In the short term, agreements following the Kyoto Protocol require the UK to attain a greenhouse gas emission reduction of 12.5% on average in 2008-2012 compared to 1990 levels. In addition, the UK Government has set its own goal for CO2 emission reduction at 20% below the 1990 level by 2010.

The existing UK Climate Change Programme combines both regulatory and obligatory measures with fiscal and support measures to place the UK on a path to reduce carbon emissions through a combination of energy efficiency in the short term and renewables in the long term.

Amongst the key measures which affect UK businesses are the revisions to Part L Building Regulations and the setting up of the Carbon Trust.





Part L: Building Regulations

The Building Regulations 2000 are being revised in order to meet with the requirements of the EU Directive on the energy performance of buildings (EU EPBD).

It is anticipated that the improved energy efficiency measures will save one million tonnes of carbon per year by 2010 (equivalent to emissions from more than one million semi-detached homes). Sections of the regulations will be updated incrementally. The first changes, to Parts F (ventilation) and L (fuel and energy conservation), came into effect on 6th April 2006.

The revisions to Part L set maximum carbon dioxide emissions for whole buildings. The regulations will apply both to the construction of new buildings and renovation of existing buildings (with a total surface area over 1,000m²). For new buildings, it is anticipated that Part L will reduce carbon emissions by 25% from 2002 standards, which already reduced emissions by 15%. The net reduction of 40% from pre-2002 is often used as an indicator of improvement.

The Department for Communities and Local Government believes that the revised regulations will produce additional benefits such as:

- Higher quality of construction through the development of robust standard details, improved skills in the construction workforce
- Innovation in construction materials, components and building design innovation
- Culture of continual improvement

The Carbon Trust Standard

The Carbon Trust Standard has been launched to take over from the Energy Efficiency Accreditation Scheme. It has been developed to provide a much needed, clear and robust definition of good practice that can be used to judge an organisation's commitment to and achievement of carbon reduction.

The Carbon Trust Standard certifies that an organisation has genuinely reduced their carbon footprint and is committed to making further reductions year on year.

To achieve certification against the Standard, your organisation will need to meet the requirements in three areas:

Measurement
Your organisation will need to measure its key greenhouse gas emissions. Initially this means measurement of the electricity and fuel you use on site, and the fuel you use in your vehicles.

Management
Your organisation needs to show good carbon management performance. This means providing evidence of activity such as investment in new equipment, maintenance programmes and staff training.

Reduction
Your organisation must be able to show emissions reduction over the last year – either on a total emissions basis, or on a relative basis (e.g. emissions/£m turnover).

Contact

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Usefull Links
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The Carbon Trust
www.carbontrust.co.uk

Act on CO² http://campaigns2.direct.gov.uk/actonco2