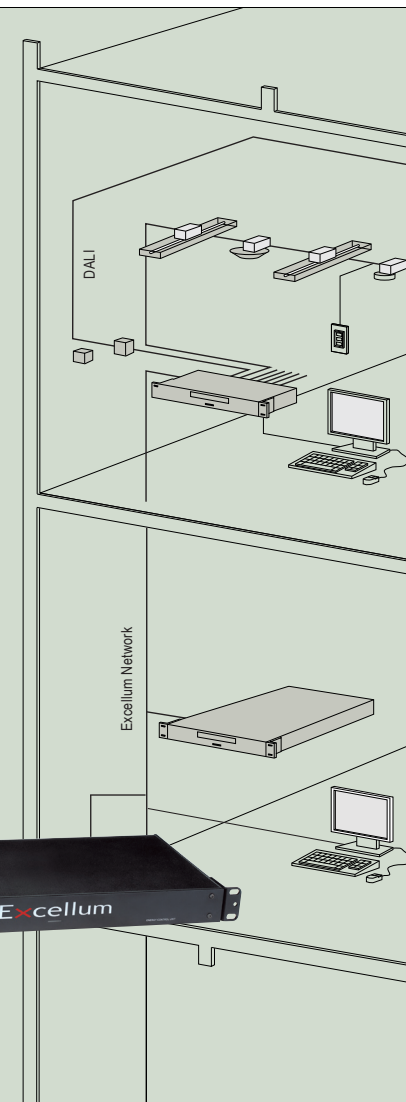


EXCELLUM

Addressable light control and energy management system



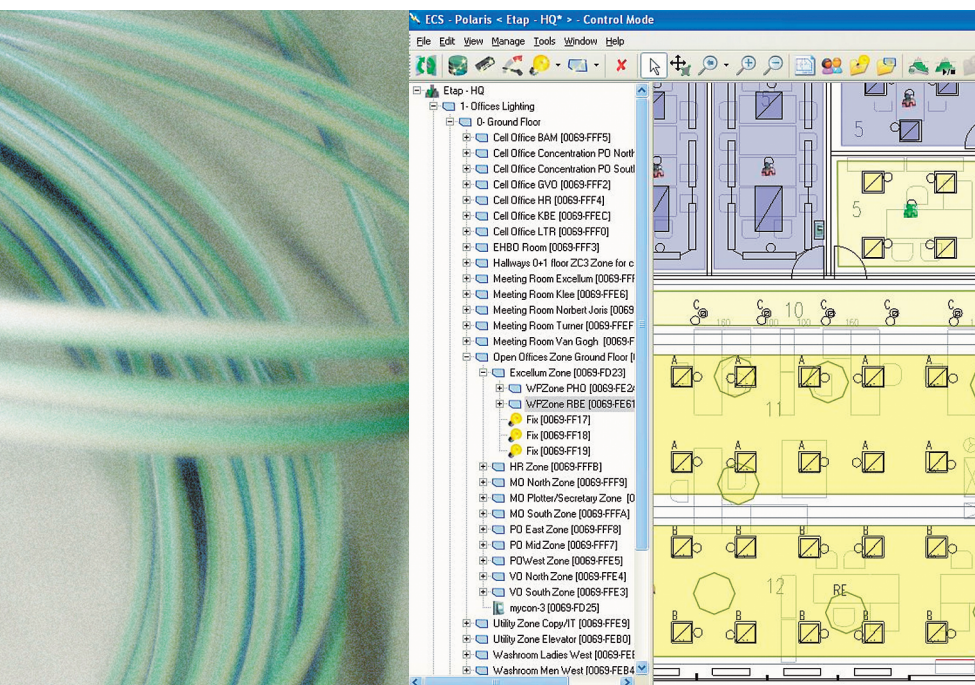
Excellum is a unique addressable light control system that was designed based on four key objectives:

- Huge energy savings
- Optimal lighting quality and ergonomics at work
- Simple design, installation and use
- Short pay back time



EXCELLUM is a comprehensive design for an integrated light control and energy management system. The instant energy savings result in a short cost recovery time and improvement of your personal lighting comfort.

The addressable dimming and switching function, combined with the user-friendly control software allows EXCELLUM to react dynamically to the constantly changing light situation in a building. Irrespective of time and location, EXCELLUM always provides the right amount of light. By integrating six different energy control strategies in one system and applying them simultaneously, EXCELLUM eliminates practically all energy waste caused by lighting.



With a simple mouse click the building manager is able to control the lighting. Lighting becomes a manageable energy post making it an integral part of your energy control strategy.

What is EXCELLUM's added value?

A reduction of your lighting energy costs by 50 to 75 %, resulting in lower operating costs, a better cash flow and an added value of the building.

An improvement of the ergonomics at work, the user's productivity and the tenant's satisfaction by optimising the lighting quality and giving users the possibility to control the light.

Light control as corner stone for energy control of the entire building. The ability of dynamic action in terms of lighting means you can use EXCELLUM to reduce peak loads or to react to changing energy needs. EXCELLUM can also be integrated in building management systems.

Freedom to adapt the lighting perfectly to changing needs. A new layout of the work space, varying lighting requirements or renovations are easily dealt with thanks to EXCELLUM's control software. There is no need to rewire or move hardware.

A boost of your building's environmental image. EXCELLUM helps you to meet the conditions to become a partner in the European Greenlight or Greenbuilding programme.

Comply with directives and come into consideration for subsidies. EXCELLUM helps you to comply with European directives – such as the European Building Energy Performance Directive – or come into consideration for local subsidy programmes.



Light control made simple

Easy to implement

EXCELLUM communicates with every luminaire individually. The configuration in areas is software based and therefore independent from the lighting circuits. It makes the design simple, fast, future-based and flexible.

Easy to install

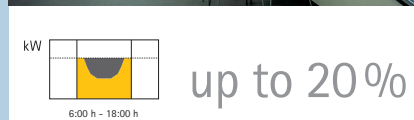
All network components are looped with ready-made wiring with a plug connection. Because no addressing or paper work is required during the installation, the connection of a luminaire or sensor is a matter of 'plug & play'.

Maximise energy savings using six strategies



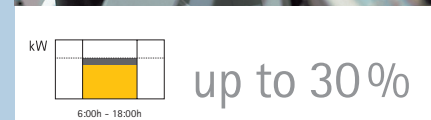
1 - Intelligent time control

In parts of the building where occupancy detection is not recommended, time controlled switching or dimming can be used. This is also possible for small areas, such as one room or even an individual luminaire.



2 - Daylight linking system

Daylight sensors can automatically adapt the lighting levels taking into account the available daylight.



3 - Task tuning

Energy waste caused by overlighting is avoided by setting standard lighting levels based on specific jobs or applications.

EXCELLUM is the only light control system that uses six different energy control strategies in the building at the same time to achieve maximum energy savings.

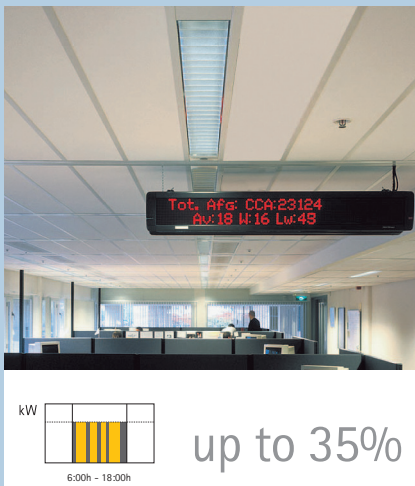
The energy savings will be most effective when these strategies are applied simultaneously. The graph shows how the six strategies can contribute to total energy savings in a building, and what the combined effect is on the power consumption of the lighting.

Easy to manage

The central control software allows the building manager to control every luminaire in a building from his pc or via the internet. The user-friendly, ground plan based software allows simple navigation or system configuration.

Easy to adjust

Luminaires and sensors are individually controlled. Reconfigurations after changes in a work space or refurbishing of the building are done entirely via EXCELLUM software. The lighting luminaires in the ground plan are dragged to another space by a 'mouse click'. Changing the wiring or moving hardware has become a thing of the past.



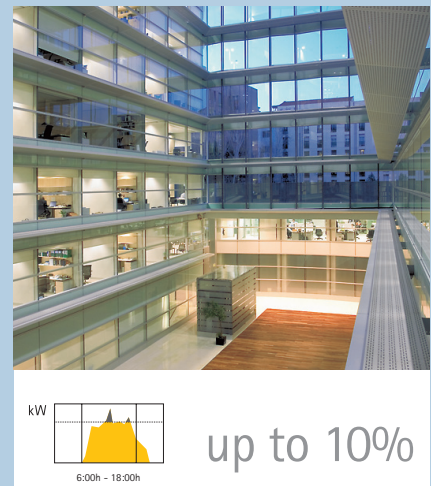
4 - Occupancy control

Movement dependent sensors can automatically switch the lighting on or off or dim it.



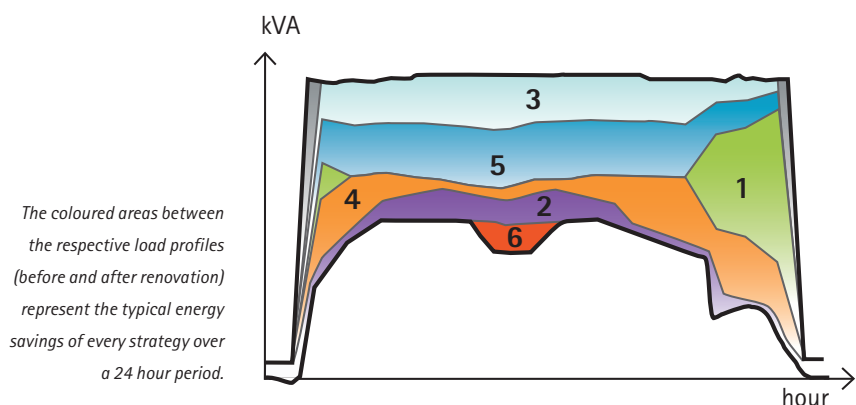
5 - Individual control

Users are able to personalise the lighting if they have control over the lighting at their workplace. This is easily done with pcs personal control software.



6 - Restriction of peak capacity

By continuously monitoring the power in a building and automatically controlling the lighting via dimming or switching, peak loads can be reduced. This can also be done selectively of course, e.g. Based on the importance of an area.



ETAP, lighting controls for energy saving and comfort

ETAP, specialised in lighting control systems, has years of experience in energy-efficient lighting. Depending on the type of building, lighting is responsible for up to 35 % of the power consumption. Excellum's aim is to restrict the power consumption of new or existing installations to a minimum.

ETAP offers energy management systems that are compatible with any lighting, irrespective of type or brand. It also provides a comprehensive service from specification and configuration to installation and maintenance.



Advanced light control systems

Conventional attempts for energy-efficient lighting usually don't go beyond switching the lighting on or off using occupancy sensors or relay circuits. However, these are all unilateral strategies that don't take into account factors such as the available daylight, changing building uses and personal lighting preferences.

Advanced light control systems are the future in limiting light energy consumption. ETAP is working on the continuing development of such control systems and actively promotes the design of buildings in an environment-friendly way with sustainable materials.



Excellum

EXCELLUM has a comprehensive approach whereby every possible energy strategy is used to achieve maximum savings without prejudicing a good lighting quality. Pleasant working conditions and personal lighting preferences play a leading part in the EXCELLUM strategy. EXCELLUM allows users to control their own working environment, building managers are able to control the lighting system and energy managers are able to reduce the cost of lighting as part of a broader energy savings strategy.





Excellum

- Up to 75 % energy savings on lighting
- User-friendly and clear
- Simple design, installation and use
- Flexible, modular, scaleable and expandable
- Available for DALI and 1-10v

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