

# LIGHTPOINT.



An ETAP publication | 2008-1



Hotel Mercure Etoile, Paris, France

Medilux: product range for the health care sector

E1 ATEX gas

LDI: LED lighting in hotels

ETAP at Light+Building





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### Medilux - ETAP broadens range for 1

#### **New products**

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front plate by your choice

ETAP has already fitted general and emergency lighting in dozens of hospitals and rest homes. Following the take-over of the Medilux range from German company Elektra, ETAP can now also supply medical techniques to hospital rooms (gasses, various electrical connections, ...). ETAP is able to provide more and better services to the health sector from now on.





### health sector

#### Lighting

Hospital rooms need general lighting, reading lights, examination lighting and night lights. One Medilux luminaire combines all this, with both an indirect and a direct lighting component. Medilux lighting is separately available as a wall luminaire (e.g. for rest homes), but can also be integrated in conventional medical care systems (see infra). The unique thing about the luminaire is the swivelling part. During examinations the indirect lighting can be directed to the bed, resulting in higher light levels. The bottom compartment has room for electrical components, such as plugs or a paging system.

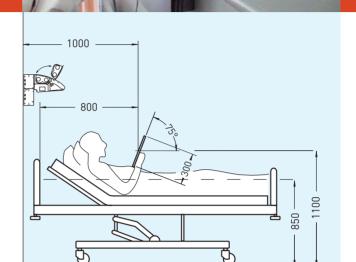
#### Medical techniques in modern shell

Increasingly in modern hospital rooms the lighting is separate from the medical facilities. This allows the medical gasses and electrical components to be combined in a compact housing, which feels more homelike. The great thing about the Medilux system is the possibility to make a bespoke front plate for this housing; with sizes, materials, shapes and colours that meet the desired mood. The medical gasses (maximum 3) have been incorporated in the front. The electrical components (plugs, equipotential connections, data communication, paging systems) are discreetly hidden in the sides of the housing. This is all bespoke work, in keeping with your wishes and with the medical components you need.

#### **Horizontal systems**

**(** 

The more conventional horizontal version of the medical care systems is still very popular, both in hospital rooms and in the intensive care. The medical gasses are in one channel, the electri-



cal components in another. Up to 3 channels can be connected in Medilux. This care system is always bespoke; you determine which techniques and which components need to be provided for your project. If necessary the lighting luminaire can also be attached on the channel.

#### Comprehensive offer

ETAP has a comprehensive offer for hospitals and rest homes. In addition to the proposed Medilux range, ETAP also offers a comprehensive offer for functional interior lighting and emergency lighting.



#### → NEW PRODUCTS



### **ELS**

ELS, the well-known ETAP daylight dependent control system, has already been applied in thousands of projects. Drawing on this vast experience, we have set out to further optimise the system.

ELS, the ETAP daylight dependent control system, which saves energy in rooms with a large amount of incident daylight, was launched over ten years ago. At the same time, ELS dims the excess amount of artificial light that has been installed, e.g. to compensate for lamp depreciation. ELS owes its success to its simplicity, the unobtrusive format and the individual luminaire control.

Our renewed ELS features an optimised control that allows you to save up to an additional 10% of energy. It also offers increased flexibility after installation. An even greater control range allows you to adapt its operation to changing local situations.

### E1 ATEX gas

E1 is a luminaire series with a high degree of protection, designed for use in aggressive environments. We are now expanding this range with versions for applications with a possible risk of gas explosion (ATEX applications).

E1 is already available for ATEX dust environments. We now also offer luminaires that meet the requirements for gas environments, more specifically for category II 3 G Ex n T4. This category includes a large number of applications, e.g. in the chemical industry. The luminaire can be simply opened and closed via a central mechanical locking system, providing extra comfort during maintenance. Obviously, E1 retains its classical features such as the durable IP65-rated housing and the solid IK08 base made of fibreglass reinforced polyester. The ATEX gas versions are standard equipped with a polycarbonate protective cover and gull-wing reflector. They are available in the T8 Ø26mm lamp and T5 Ø16mm lamp versions, both single lamp and twin lamp models. Through wiring can optionally be provided.







Atex gas version: specific design for areas with a possible risk of gas explosion.



### Proven savings with ELM from Excellum

"If we can save energy at ETAP, we can do it anywhere", they thought at Excellum, the youngest member of the ETAP group. They applied their Energy & Light Manager (ELM) to the already super-efficient luminaires in the offices of ETAP Lighting.

The challenge: how to achieve further savings if the installed power for lighting purposes is already extremely low? This is only possible via an integrated solution that reflects lighting know-how in powerful and user-friendly software and ingenious electronics.

The energy saving was made possible by:

- · Simultaneous application of five of the six control strategies (see below). The sixth strategy "load shedding" was not applied in this case.
- · A simple hardware concept: Energy Control Units (ECUs) per floor or zone are interconnected via a standard Ethernet backbone. Robust RS485 or DALI lines go from the ECUs to the luminaires and sensors. No preconfiguration whatsoever is required, the installer need not spend any time noting down numbers on drawings or lists!
- · Ingenious software minimises on-site commissioning time. Subsequent modifications also require minimum effort.
- · Unique analysis functions allow the user to retrieve all parameters of each luminaire or zone.

The simple installation method allowed two installers to provide all luminaires with an I/O module in just three weeks time. Commissioning was a matter of a few days.

A calibrated kWh meter checks the consumption. Three months after installation Excellum could proudly announce that ELM works both accurately and effectively. Based on extrapolated data the following conclusion can be drawn: an annual saving of more than 100 MWh, equivalent to an emission reduction of 40 t CO2, for an office building consisting of just two floors.

Excellum installed the ELM system on two floors in the ETAP Lighting office building.

EXCELLEN. LIGHTING

**SAVING ENERGY** 

#### PROJECT DATA

ETAP head office - offices Lighting, Malle (Belgium)

Excellum, Malle

EG-Elec, Turnhout (Belgium)

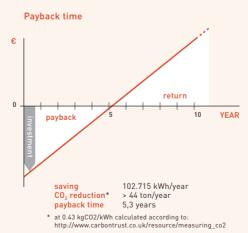
Excellum, Malle

Number of nodes	56
Number of luminaires	509
Number of sensors	52
> presence detectors	33
> push-button panels	13
· light consons	,

Number of PCs with PCS (personal control software)



in the offices of ETAP.



ELM approaches lighting energy consumption through the simultaneous application of six control strategies:

- 1 Daylight harvesting
- Task tuning
- Occupancy control
- Smart time scheduling
- Personal control
- Load shedding



Excellum

5 LUGHT**POINT** 

### → NEW PRODUCTS

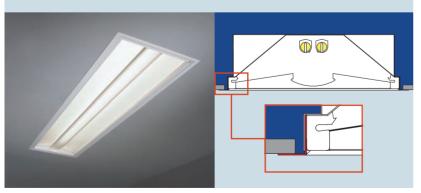
### Wafer trim



UT1 luminaire with reflector

Conventional recess mounted luminaires are usually mounted in a system ceiling. From an aesthetic point of view, they are less suitable for use in other ceilings such as plaster ceilings, wooden ceilings, etc. because of their visible superimposed trim.

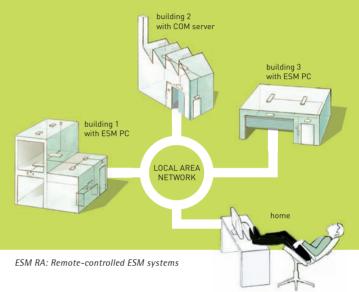
ETAP now also provides luminaires with wafer trim. You can then pull up the luminaires flat against the ceiling so as to give them a rigid appearance. Your ETAP adviser will be glad to provide you further details.



UM10 mounted rigidly in the ceiling

## **ESM RA expands** the **ESM horizon**

ETAP Safety Manager (ESM) is a central control and management system with which you can monitor your emergency lighting from a PC. The ESM RA (Remote Access) extension allows you to consult and control your ESM program from another location via your local area network.



#### Lower total cost of ownership

ESM RA significantly reduces the total cost of ownership of systems that are distributed across multiple buildings. For maintaining the log book (inspections, tests, defects and system changes) as per EN50172, you no longer need to move between buildings, which allows you to save both time and money. For maintenance work, you can now print out service reports online from another location. You can then collect the necessary replacement parts (batteries and lamps) in advance, so that the complete ESM system in a given building can be serviced in a single visit.

#### Increased user comfort

You no longer need to designate an emergency lighting manager for each building. The emergency lighting in various buildings can be monitored and optimally geared to the local conditions from one central location.

ESM RA can be used with all new and existing ESM systems.

### Industrial emergency lighting Kb IP68: rugged and robust



Kb is a rugged luminaire, designed for harsh industrial environments. In modern utility buildings, too, its industrial look oozes reliable durability.

Kb luminaires with LED light source or fluorescent lamp are available for maintained signage. LEDs with a lifetime of more than 10 years are particularly suitable for this application. Here, too, the ETAP light guide technique results in superbly uniform illumination and increased recognisability.

#### Wide range of applications

The escape route lighting with a specially developed reflector for the fluorescent lamp allows for great interdistances. As a result, fewer luminaires are needed. For greater mounting heights, the increased lumen

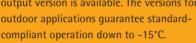
output version is available. The versions for outdoor applications guarantee standardcompliant operation down to -15°C.

#### More environment-friendly

With Kb you can use NiMH batteries for your complete project. Moreover, the high-quality housing materials are easily recyclable.

#### Easy installation and maintenance

The quick mounting brackets provide ease of installation. The wiring enters the luminaire on one side, which no longer needs to be opened after mounting. Maintenance is possible via the other side of the luminaire. Through wiring is standard.













### Hempelmann Kassel: expert chooses ETAP



HS-C. Hempelmann Kassel KG is a wholesale distributor of supplies for many installers in the Kassel region. The firm specialises in building technology, electrical installations and light engineering. For the erection of their new office building in Kassel/Waldau, they asked ETAP to design and supply an optimal lighting system.





### Wholesale specialising in building technology

Hempelmann Kassel is part of the GC group, a partnership of 80 medium-sized wholesale companies scattered across Germany. The company originally focused on sanitary equipment, but in recent years it has gradually expanded its competences to the electricity sector and light engineering. To accommodate its steady growth, Hempelmann Kassel has recently commissioned a new and larger building. It is comprised of a modern warehouse, showrooms for e.g. light engineering and offices for its 45 employees. ETAP supplied a total of approx. 400 lighting luminaires and emergency lighting for a surface area of 40,000 m<sup>2</sup>.

#### 'Enlightened' partnership

There is a specific reason why they chose ETAP. We have in fact for some years been working with this wholesale in the field of high-quality lighting solutions. Together we advise, supply and guide customers with projects that call for ergonomically sound and energy-saving lighting concepts. Distributors are supported with an expert lighting planning service, so they can offer their customers not only high-quality solutions but also opportunities for energy and operating cost savings.

#### The right example

For its own building, Hempelmann Kassel chose ETAP's environment-friendly lighting system. Optimised energy use is achieved mainly via the daylight dependent ELS control. Fewer than 200 E5 luminaires provide excellent and uniform lighting in the warehouse. The industrial rail system incorporates 60 escape route and signage luminaires K1, enabling employees to rapidly and safely exit the building in the event of an emergency.

In the offices and showrooms, 65 UM18 luminaires with the innovative MesoOptics™ technology create a pleasant work environment, without any glare on the computer screens. A total of 50 high-quality emergency lighting luminaires of the K9 series with state-of-the-art LED technology ensure the safety of the employees. The ETAP Safety Manager (ESM), a central, computer-controlled monitoring and control system, continuously checks the proper operation of each individual emergency lighting luminaire.

The entire building is a showcase of efficient, energy-saving lighting in warehouses and offices. It obviously reinforces the credibility of Hempelmann Kassel in the area of high-quality lighting concepts.



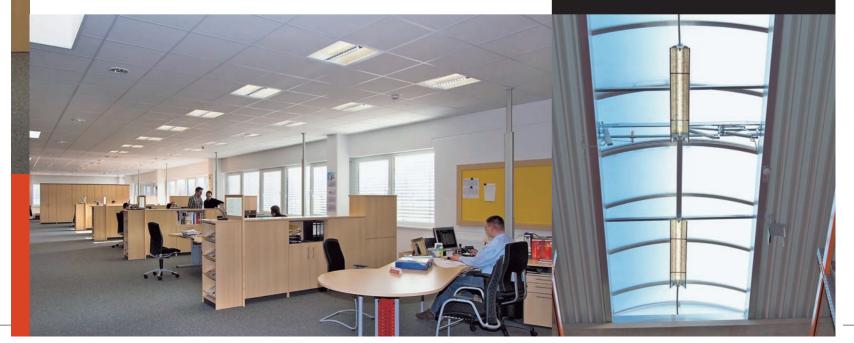
#### Warehouse

- · 176 E53x/180HFE
- · 22 E5200/280HFE
- · 41 x K113/11N2 emergency lighting
- · 18 x K133/6P emergency lighting
- · for signage

#### Offices

- · 65 x UM187/224HFE
- 6 x U5867
- · 6 x U1707
- · 18 x K9243/1P emergency lighting
- · for signage
- · 32 x K9013/3N K9 emergency lighting modules

**Emergency lighting with ESM** 





IN THE SPOTLIGHT.

### LED lighting for atmospheric hotel rooms

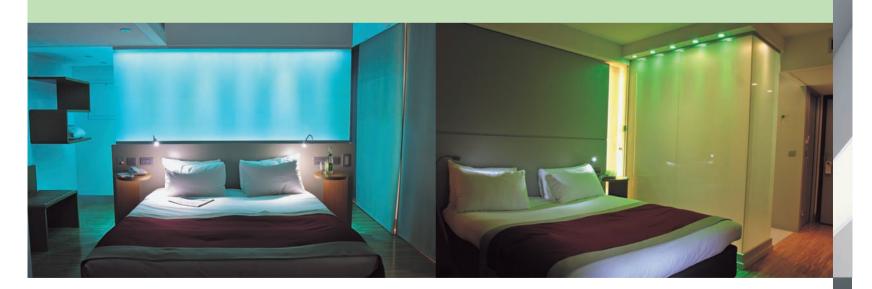


LEDs are increasingly finding application in the professional market. The Accor group, for example, asked Led Design Innovation (LDI) to work out a project with LED lighting for the Mercure Etoile Hotel in Paris

It is perfectly possible to create atmospheric room lighting with LED luminaires. Various atmospheres can be created by means of colour control. The slightly greater initial investment is fully recovered after a few years thanks to the low energy and maintenance costs of LEDs as compared to conventional halogen lighting.

Beside the entrance hall, the lobby and the restaurant, a total of 50 rooms were equipped with LEDs. A LED strip provides indirect lighting behind the bed. The glass partition between bathroom and bedroom is illuminated from above by Pluto luminaires (8W) with colour control. The same Pluto luminaires (7.2W) are used in the bathroom to create atmospheric light.

The Accor group chose LDI for its many years' experience in the area of LED technology. LDI's ability to supply a total package (luminaires, power supply and control) was most certainly an advantage.







The ETAP stand in world premiere



### ETAP and LDI exhibit at Light + Building in Frankfurt

With a completely renewed stand design, ETAP and LDI presented numerous innovations and technical feats at the Light + Building trade show in Frankfurt from 6 to 11 April.

- · Diffuser luminaires with amazing photometric performance
- · Waterproof and impact resistant emergency lighting for indoor and outdoor use
- · An architectural line system for recess and surface mounting that allows you to use a single profile type throughout the building.
- $\cdot\;$  EBS, the ETAP solution for the central power supply of emergency lighting systems.
- · LDI (Led Design Innovation) presented the latest developments in the field of LED lighting.









### Office complex Andes chooses R8

Andes, a brand new office complex in Wondelgem, is a modern, four-layered building, for which GWM, a Ghent-based team of architects, created a fashionable design. The first eye-catcher is a patio at the entrance. The rooms that follow all have a very trendy appearance through the mix of landscape offices, meeting rooms and cosy corners.

The character of this fine interior is also reflected in the lighting. Architect Gustavo Mulhall was so impressed by the modern-looking R8 diffuser luminaires that ETAP delivered an R8 demo luminaire on-site. With its extremely high efficiency, ETAP proposed not only an aesthetic but also a low-energy lighting solution.

The rigid cylinder-shaped design, the meticulous finish and the efficient energy use make the R8 unique in its class. The HaloOptics® diffusers ensure uniform illumination, without disturbing lamp images. The technique is completely hidden in the top of the R8, so that only the luminescent element is visible.

The 75 R8 versions are suspended in line with 2 or 3 luminaires above the desks. The steel wires are directly connected to the concrete structure. They are simply passed through perforations in the ceiling, so that the system retains its rigid and minimalist appearance.

 Design office
 Boucherie

 Architect
 GWM architecten

 General contractor
 Floré

 Installer
 EVIP





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