# Configuration via the mains
The smart way to configure your luminaires

TRIDONIC

You can easily configure your LED luminaires with the programmer ready2mains & U6Me2. There is no need for an additional interface as the existing mains interface is used.

Thanks to ready2mains and the use of user-defined configuration scripts, the risk of configuration errors has been significantly reduced. Simple and flexible integration in the municipal infrastructure is also possible.

U6Me2 enables street (re)programming with a high degree of flexibility. Simple setting of „automatic midnight" can therefore result in optimum energy savings.

The responsible use of light management functions such as adjustable output current, constant light output (CLO), midnight function (chronoSTEP) and reaction to movement (corridorFUNCTION) can provide additional potential energy savings without compromising safety.
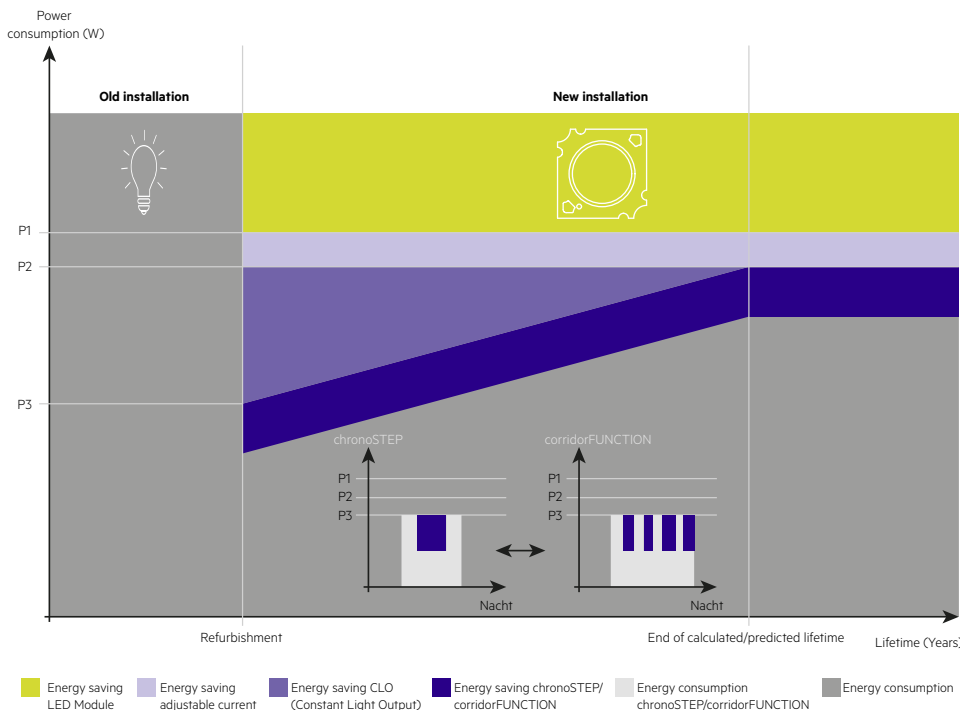
Example

If we assume that a total of 90 luminaires each equipped with a 125 W high-intensity discharge lamp and with mast spacings of 50 m, 45 m and 40 m (30 luminaires each) are to be replaced the energy consumption figures will be as follows: With conventional lamping the lighting system will consume 55 MWh per year and produce 17.9 t of CO_2 emissions. Based on the usual illumination classes according to EN 13201 an LED luminaire rated at 52 W (P1) is recommended. In view of the required/assumed life of 100,000 hours and a cleaning interval of three years, the maintenance factor is defined as 0.8.
If the above-mentioned functions are used the annual savings are as follows:

Measure	CO_2 saving	Energy saving
Refurbishment: LED luminaires	12 t	33 MWh
Adjustable current	4 t	11 MWh
CLO function	1,7 t	5 MWh
chronoSTEP	4 t	11 MWh
corridorFunction	3,75 t	10 MWh

Since the savings take effect simultaneously the table values cannot be summated. Nevertheless there is an overall reduction in CO_2 of 15.7 t.

Legend:
Energy saving LED Module | Energy saving adjustable current | Energy saving CLO (Constant Light Output) | Energy saving chronoSTEP/corridorFUNCTION | Energy consumption chronoSTEP/corridorFUNCTION | Energy consumption

Adjustable current
A major benefit of modern outdoor luminaires with Tridonic LED Drivers is that they can be very easily adjusted and controlled. This is particularly useful if the light beams from multiple luminaires overlap one another, for example at road junctions and entrances. In such cases the lighting level of the luminaires can be reduced by adjusting the output current for individual luminaires.

Constant Light Output (CLO)
The CLO function (Constant Light Output) supports efficient operation. It ensures a constant illumination level throughout the life of the luminaire. Initially the LED light sources will not be brighter than required because less current will be supplied to them and they will therefore consume less energy.

corridorFUNCTION
The corridorFUNCTION ensures that high luminous flux is produced only when it is actually needed. As soon as the sensor detect movement the luminous intensity is increased. Once the sensor no longer detects movement the luminous flux can be automatically reduced after a predefined delay.

chronoSTEP
The chronoSTEP function takes into account reduced traffic on roads at certain times during the night and enables the lighting to be programmed in eight individual dimming levels and times. Individual LED street lights can therefore be programmed with a high degree of flexibility, or entire street runs from a switching cabinet.

Outdoor
Programmer ready2mains & U6Me2

Programmer ready2mains & U6Me2

At a glance: Programmer ready2mains & U6Me2

‒ Suitable for the use in streets and switching cabinets
‒ Up to 500 scripts can be stored (ready2mains, U6Me2 and DALI scripts)
‒ Supporting software for fast programming
‒ Integrated USB interface for programming via DALI, ready2mains and U6me2
‒ Current can be set in 1 mA steps (ready2mains and DALI)

Designition	Size	Order No.
Programmer ready2mains U6Me2	173 x 87 x 47 mm	28001206

Paramters

Feature	ready2mains	U6Me2
Distance	Short (~400 m)	Long (~1.5 km)
No. of devices programmable in parallel	5 LED drivers (max 400 VA)	No limit
Programming options	Current, CLO, chronoSTEP*, corridorFUNCTION	chronoSTEP* only
Programming speed	Fast	Slow
Dimming	Yes	No
Best application	Flexible on-site and at the factory	Outdoors at the cabinet

*Autonomous midnight-settings

Energy saving made easy

The fact that at night there are fewer people on the streets and also less traffic means that there is huge potential for energy savings. The successful "automatic midnight" function simply reduces the lighting level at this time, saving energy whilst still providing enough light for safety and security.

With the new additional adjustable midnight functionality (chronoSTEP), Tridonic brings energy efficiency and customization to a common denominator. Different light and time levels can be programmed on site at a central switching cabinet.

Rene Kivila
Account Manager Baltic States

Wennerström Ljuskontroll AB
WTC Tallinn 2nd floor, room 223
Parda 4, EE-10151 Tallinn, Estonia

Phone +372 55518077
rene.kivila@wlk.eu
www.wlk.eu
www.tridonic.com

Watch video on YouTube