

# Tegis<sup>®</sup>



Smart management ecosystem for street lighting





# Guiding local authorities towards responsible and connected lighting



## GUARANTEEING...

## MANAGING...

## PREPARING...



### ...AN ATTRACTIVE CITY

- Service quality
- Safety
- Comfort and well-being



### ...YOUR BUDGET

- Maintenance costs
- Energy consumption
- Investment priorities



### ...FOR THE FUTURE

- Scarcity of energy and increasing associated costs
- Sustainable development of towns
- Interoperability of systems and preparation for new uses

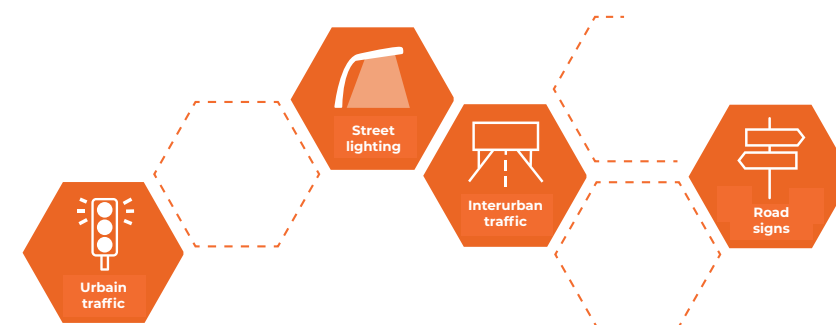


**40 000** LIGHT  
POINTS managed

In more than  
**15** COUNTRIES

**15** YEARS OF EXPERIENCE  
in the field

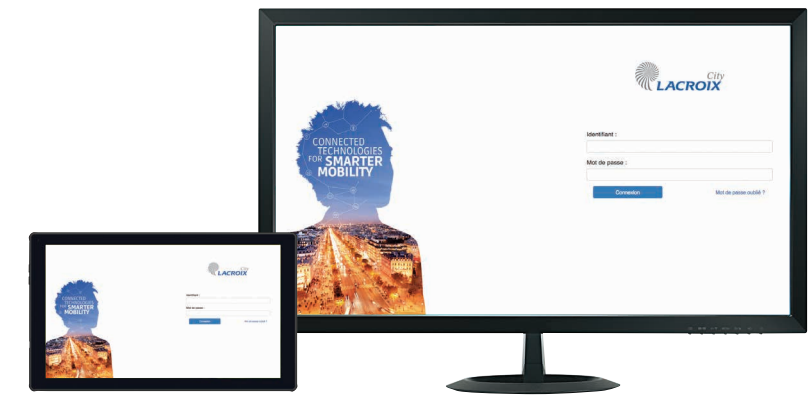
In more than  
**100** TOWNS





# Tegis: an adaptable smart ecosystem for managing street lighting

Tegis, a modular and **future-proof system** that can be adapted to the needs of the various areas of towns and communities. With Tegis, LACROIX - City is committed to guiding you towards a **smart, connected and attractive** city.



## Tegis® Astro

Area with **standalone control** of street lighting cabinets



## Tegis® Astroconnect

Area with **connected control** of street lighting cabinets



## COMPATIBLE SensyCity®

## Tegis® Lighting

Area with **connected management** of street lighting cabinets



## Tegis® Lighting Plus

Area with **connected management** of street lighting cabinets **up to the light points**



# Cabinet management: a simple step towards responsible and connected lighting

## Tegis® Astro



## Tegis® Astroconnect



## Tegis® Lighting



## Tegis® Lighting Plus



 **Standalone control** of lighting

 **Connected control** of lighting

 **Connected control** of lighting

 **Monitoring** of lighting cabinets

 **Feedback and analysis** of consumption

  **Surveillance** de chaque **point lumineux**

 **Abaissement** de puissance en chaque **point lumineux**

 **Energy savings**

The control is the first source of energy savings thanks to its local astronomical clock.

 **Future-Proof**

To connected control or management.

 **Energy savings**

The control is the first source of energy savings thanks to its connected astronomical clock.

 **Maintenance savings**

The connected astronomical clock enables remote configuration.

 **Future-Proof**

To complete connected management of the cabinet.

 **Energy and maintenance savings**

The control is the first source of energy savings thanks to its connected astronomical clock that can be configured remotely.

 **Service quality and safety**

Cabinet monitoring and its real-time alert system provide optimised service quality for public lighting equipment.

 **Budget management**

Feedback and analysis of energy consumption to measure energy savings and prioritise investments.

 **Future-Proof**

To entirely connected management of cabinets and light points.

  **Optimised energy savings**

Dimming of the light points is configured remotely for greater flexibility.

 **Service quality & optimised safety**

Monitoring of every light points optimises the management of public lighting equipment in certain areas of the town.



# The Tegis cabinet range



COMPATIBLE  
**SensyCity**

**Tegis**

Tegis **Astro**

Tegis **Astroconnect**

Tegis **Lighting**

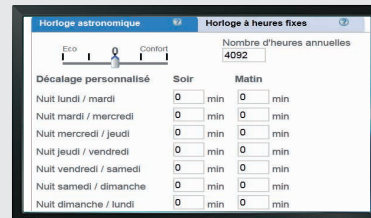
Future-proof to  
the light points



Control unit



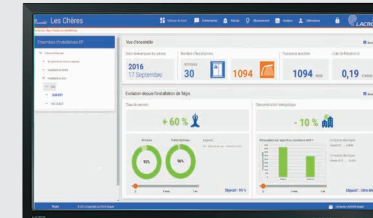
Control unit



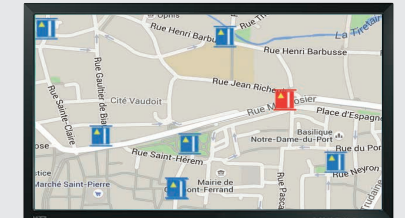
Web platform



Control unit



Web platform - Control, monitoring, metering



**Standalone control**  
of lighting

## Synchronised astronomical clock

- > 3 programmable outputs and override night cutouts.
- > In-cabinet reprogramming.
- > Cabinet override.

**Future-Proof**

**Connected control**  
of lighting

## Synchronised astronomical clock

- > 3 programmable outputs and override night cutouts.
- > Remote, real-time reprogramming from the web platform.
- > Cabinet override.

**Future-Proof**

**Connected control**  
of lighting

## Main local control

- > Synchronised astronomical clock.
- > 3 programmable outputs and override night cutouts.
- > Remote forced start-up.
- > Remote, real-time reprogramming from the web platform.

or

## Backup local control

- > Astronomical clock to back up external controls in case of failure.

or

## Central control

- > The solution for replacing Pulsadis to activate lighting in a community using central information.

**Monitoring** of the public  
lighting cabinet

## Real-time alert system

- > Main power supply, public lighting switch, inputs, door opening, etc.
- > Monitoring inputs: 7 on the control unit optional additional inputs (see page 11).
- > Real-time display of equipment status on the web platform.

## Monitoring of external lighting controls

- > Ensures safety of public lighting control.

## Fault analysis

- > Troubleshooting assistance for your public lighting equipment.

**Feedback and analysis**  
of consumption

## Feedback on consumption

- > Energy consumption.
- > Alerts regarding anomalies with upper and lower limits.
- > Power factor measurement.

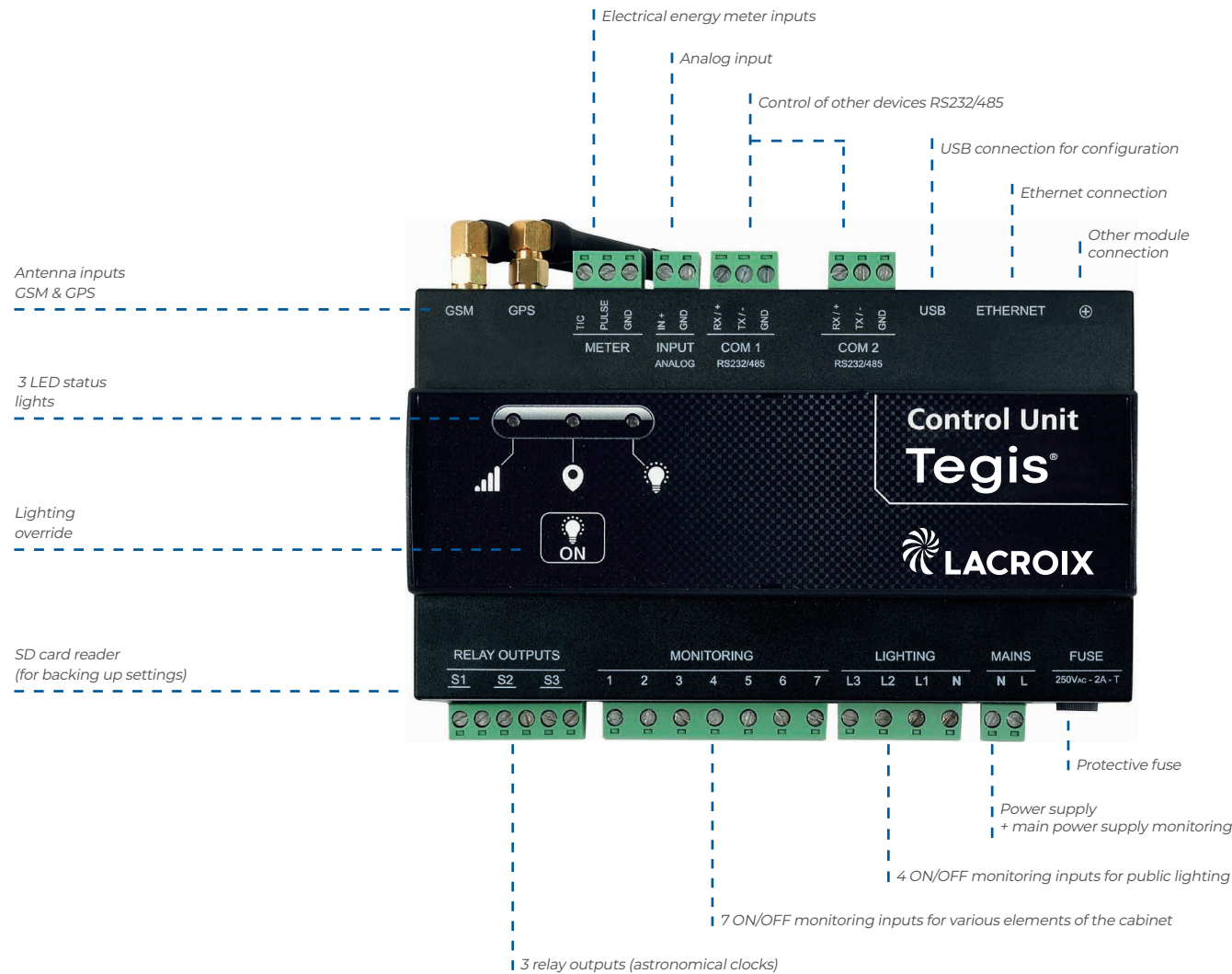
## Consumption analysis

- > Measuring savings made.
- > Prioritising future investments.

# Technical specifications



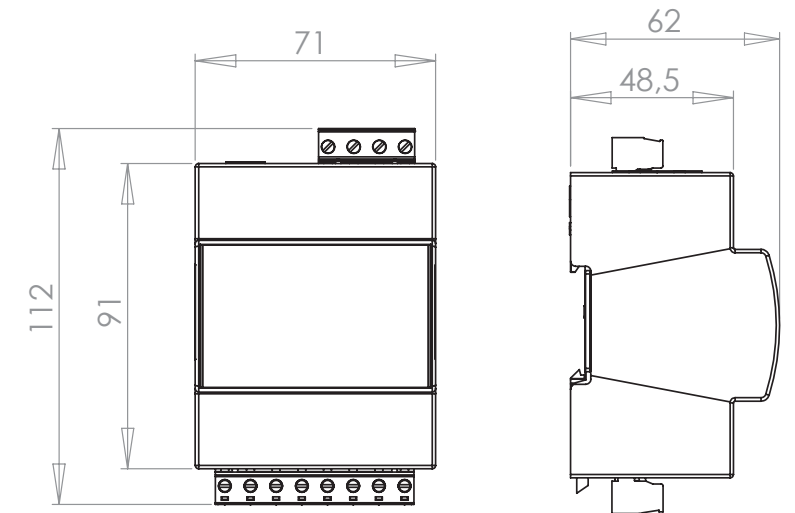
## Tegis control unit



## Additional Tegis monitoring input modules

This module allows to add monitoring inputs, to monitor more elements in the street lighting cabinet. This module is connected to the ⊕ input of the Tegis control unit (other module connection).

Modules contain 11 additional ON/OFF monitoring inputs.



## Technical characteristics

**Operating temperatures:**  
-25°C to +50°C

**Operating voltage:**  
160V to 265 VAc - 50/60 Hz

**Communication modem:**  
integrated - GSM/GPRS

**Product standards:**  
EN 60950-1  
EN 61000-2 / 61000-3  
EN 55032  
EN 55024  
EN 301-3 / 301-7 / 301-24 / 301-489 / 301-511 / 301-908  
EN 300-440

**Certification:**  
CE

**Dimensions (in mm) :**

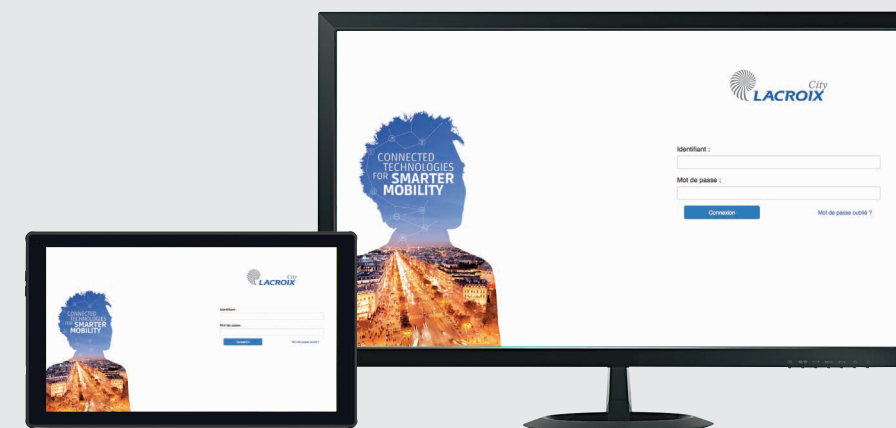


## Web platform

User interface accessible online, always up-to-date, for simple and secure use.



City Connect by LACROIX City means different elements of smart cities can be connected on a single web platform, which can interface with external services (mapping, infrastructure, CAMM, other management solutions, etc.)



## Environmental protection

**Makes it possible to obtain energy savings certificates :**

- RES-EC-06**  
> 17 500 kWh cumac x P (saved power in kWh)  
Renovation of enhancement illuminations.
- RES-EC-07**  
> 17 500 kWh cumac x N (number of astronomical clocks)  
Astronomical clock for street lighting.





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FOR **SMARTER**  
**MOBILITY**