Tegis Lite control unit

Tegis Lite is a communicating control unit dedicated to the connected control of public lighting cabinets.

The Tegis Lite control unit is installed in a cabinet and when assotiated to the Tegis Astroconnect software service package; it enables the remote setting of 2 synchronized astronomical clocks via the Tegis Web platform. This eliminates the need for local reprogramming, thus freeing up maintenance team time for tasks with higher added value for the territories.

Combined with the Tegis Astroconnect Plus software service package, the Tegis Lite unit enables extra remote setting of the following parameters:

- Remote forcing, switch-on or switch-off functions, for real-time interaction with cabinets. This means that the operator can instantly control the switching on or off of its public lighting fleet in response to hazards encountered (climatic events, making an area safe following an accident, crowds gathering...).

- Time stamping of date and hour of street lighting on/off command.

- Daily feedback of the cabinet energy consumption. For cabinets equipped with a Tegis compatible digital energy meter.

As part of the Tegis Central Connect offer, the Tegis Lite control unit also receives and monitors central commands: street lighting cabinets can be controlled via an external central information (light sensor, for example).

Associated software services

Tegis® **Astroconnect**

Tegis® **Astroconnect Plus**

Tegis® **Central Connect**

BENEFITS

Compact for easy integration in any type of cabinet.

Easy to set up with remote access via the Tegis web platform.

Scalable in line with management of the cabinet and light points, with the addition of:

- Monitoring module.

- RF extension module, and/or PLC extension module.

- Service software Tegis Lighting or Tegis Lighting Plus.

TECHNICAL CHARACTERISTICS

Mechanical characteristics:

- Protection class: IP2X.
- Material: Polycarbonate.
- Plug-in connectors.
- Weight: 220 g.

Electrical characteristics :

- Operating voltage: 230 VAC / 50-60 Hz.
- Electrical class: Class 2.
- Removable fuse T2A-H-250V (replaceable).
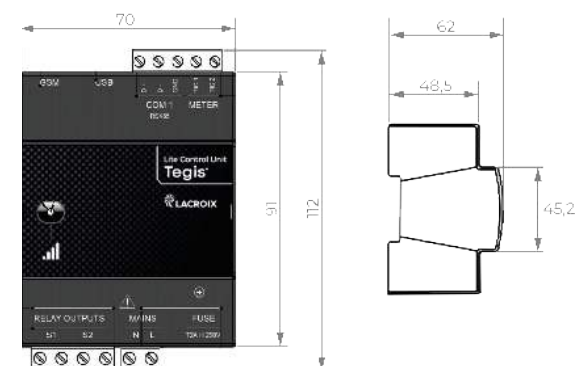- Tropicalized circuit board.

Communication:

- Integrated GSM modem: 4G-LTE-M.

Available inputs and outputs:

- 2 outputs: S1 and S2 for relay control.
- 1 RS485 port: for approved smart meters.
- 1 proprietary RS485 (RJ12) port for connecting external modules - up to extension modules.

Installation:

- In a cabinet.
- Standard mounting: on DIN 35 rail.
- Vandal-proof GSM antenna (LTE-M).
- Operating temperature: -25°C to + 50°C.

LACROIX

GSM antenna input

USB connection for factory setting

RS485 connectivity for approved smart meters

ICT Customer tele-information connectivity for specific smart meters

GSM connection status LED

Connection of add-on modules

Protective fuse

Power supply
+ main power supply monitoring

2 relay outputs (astronomical clocks)

Connectivity:

4G-LTE-M for an optimal coverage:

Supplied with vandal-proof antenna for optimum GSM signal reception (LTE-M).

The antenna enables the control unit to synchronize the astronomical clock and set its parameters remotely via the web interface.

Easy maintenance:

· Pluggable connectors for easy wiring.

· Interchangeable fuse for overvoltage protection.

· Streamlined front panel with LED for visual monitoring of GSM communication status (LTE-M).

Product scalability:

The Tegis Lite control unit can be upgraded by adding extension modules (up to 3 extension modules on a single Tegis Lite control unit).

Monitoring module

RF extension module

PLC extension module

LACROIX