ELECTRICAL CABINET

RADIOLITE 220 NEO
RADIO-SYNCHRONIZED
SOCIO-ASTRONOMICAL CLOCK

Radiolite 220 Neo is a radio-synchronized socio-astronomical clock. It is a programmable and energy-efficient solution that switches public lightingon and off at the optimal moment according to seasonal variations. It ensures perfect synchronization across the entire city while optimizing lighting control and reducing energy consumption.

> Radiolite 220 Neo : 2 programmable Astro outputs

GPS   Bluetooth

BENEFITS

DAILY ENERGY SAVINGS

◆ Up to 300 hours of lighting saved per year.
◆ Ensures lighting only when necessary, at the right time
◆ Allows switching on at the threshold of visual perception without compromising citizen safety.

THE MOST PRECISE SOCIO-ASTRONOMICAL CALCULATION

Invented by BH Technologies and specially designed for public lighting, this patented algorithm combines several parameters to optimize switching times: location, date, time, angular calculation of the sun's position,and sociological data related to city activity patterns

SUSTAINABLE AND RECYCLABLE SOLUTION

◆ Easily recyclable
◆ Optimized service life
◆ Designed and manufactured in France
◆ Partnership with Ecosystem to ensure environmentally responsible product end-of-life management

EASY INSTALLATION & ZERO MAINTENANCE

◆ Quick setup in the field
◆ No drift over time
◆ Continuously synchronized via GPS, ensuring the clock is always accurate
◆ Requires no recalibration or on-site intervention

FEATURES

WEEKLY PROGRAMMING

- Allows creation of nighttime switch-off scenarios
- Up to two disconnections per night, with differentiation between weekdays and weekends

TWILIGHT OFFSET

- Enables adjustment of switch-on and switch-off times to adapt lighting duration according to season, date, and location
- The offset can be set between 1 and 99 minutes earlier or later

3 PREDEFINED MODES

- Standard Astro, Socio-Astro Eco, and Socio-Astro Comfort.
- These presets can be assigned independently to each relay.

EXCEPTIONAL PROGRAMMING

- Allows creation of special switch-off scenario for a single night or a specific period of the year
- The exceptional program has priority over the weekly schedule
- Up to 5 exceptional programs per relay

PROGRAMMING VIA LUCE APP

- Luce App enables local communication for reading, programming, geolocation, and synchronization of programs with the Luce platform
- It also allows maintenance and operational management: viewing history logs or performing radio analysis

COMMERCIAL REFERENCE
> L-RAD220-PACK : Radiolite astronomical clock, 2 programmable outputs, programming via Luce App smartphone application, includes Glob antenna.

TECHNICAL DATA

Operating temperature : −20 °C to +60 °C
Storage temperature : −20 °C to +40 °C
Operating voltage : 230 V AC ±15 %, Class 2
Antenna connection : Glob or BH Gate via UART (RJ12)
Isolation : Power supply / SELV: 4 kV — SELV inputs: 4 kV
Lifetime : 300,000 switchings (AC1, 3 A) / 250,000 switchings (AC15, 0.8 A, cos ɸ 0.45)
Housing protection rating : IP20
Housing : 3 modules, DIN rail mounting
Relative humidity : 90 % @ +25 °C
Relay outputs : 2 dry contacts (NO/NC)
Applicable standard : EN 60730

FABRIQUÉ EN FRANCE