iLCS®
Intelligent Light Control System

iLCS sentinel

Efficiency and safety for electrical infrastructure

Index

Why choose iLCS Sentinel?

Cut costs. Gain control. Improve service quality.

Instant control, wherever you are

With **iLCS Sentinel**, you can monitor the status of every electrical panel in real time and take remote action in case of anomalies.
The system detects issues, sends detailed alerts, and allows you to respond immediately — either manually or automatically — without the need for on-site intervention.

Prevention comes before the alarm

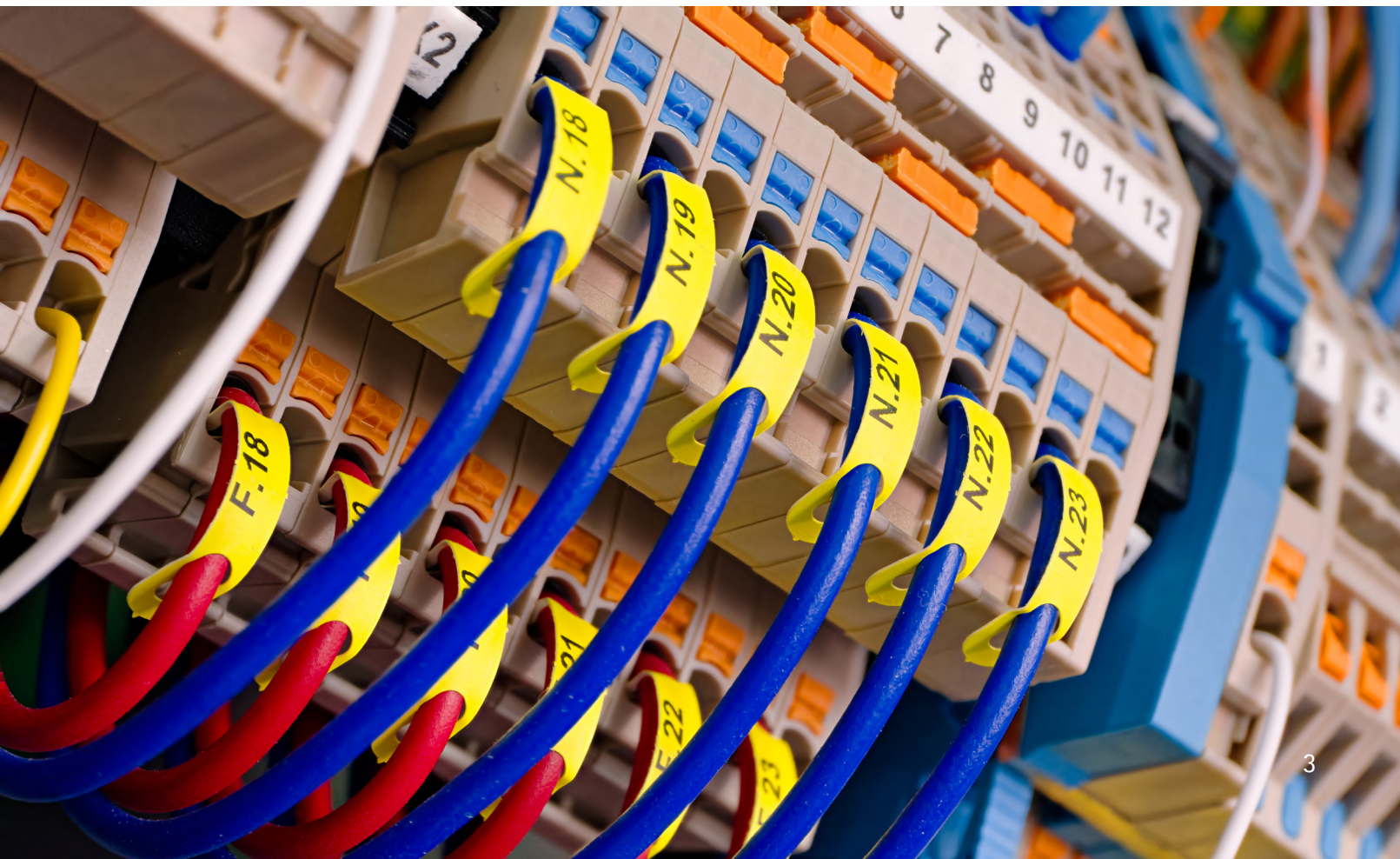
Don't wait for citizens to report an issue.

The system proactively identifies phase disconnections, ground leakage, unauthorized access, and other critical anomalies — triggering immediate and logged alerts.

This allows you to act before problems escalate.

Safety guaranteed — for the network and your teams

The system is designed with safety in mind: every remote control can be overridden locally via a manual switch, ensuring field operators can work securely.
iLCS Sentinel ensures safe, transparent management of your entire electrical infrastructure.



All the advantages of iLCS Sentinel

Smart control. Instant response. Guaranteed safety.

Certified energy metering

Each power distribution box can be equipped with one or more **MID-certified meters**, allowing real-time monitoring of energy consumption per line section.
The collected data enables:

- accurate cost breakdown by sector or system
- automatic generation of daily, weekly, or monthly reports
- historical consumption analysis to optimize the network
- detection of anomalies and energy waste

Event history and full traceability

Every action, status change, door opening, or disconnection is **automatically recorded through I/O modules**.

This allows you to:

- reconstruct exactly what happened and when
- support post-event analysis and maintenance planning
- always rely on objective, verifiable data

Traceability is key to transparency and accountability in infrastructure management.

Secure access and real-time alerts

Thanks to integrated sensors, **iLCS Sentinel** detects any panel opening or power anomaly.
You receive instant notifications in case of:

- unauthorized access
- digital I/O state changes
- phase loss
- earth leakage above threshold
- total power outage (via battery backup)

You always know if someone has accessed the system — and you can act immediately.

Remote management of switches and contactors

You can **remotely control** the opening or closing of line switches, avoiding the need for on-site intervention.
Actions can be performed:

- manually, via the dashboard
- automatically, based on programmed logic

A local safety lock can also be enabled to block remote commands during maintenance operations.

Integration with I/O modules and RS485 devices

iLCS Sentinel is designed to be **modular and scalable**. It can interface with:

- digital or analog I/O modules
- RS485 devices (such as meters or sensors)
- custom firmware developed on request

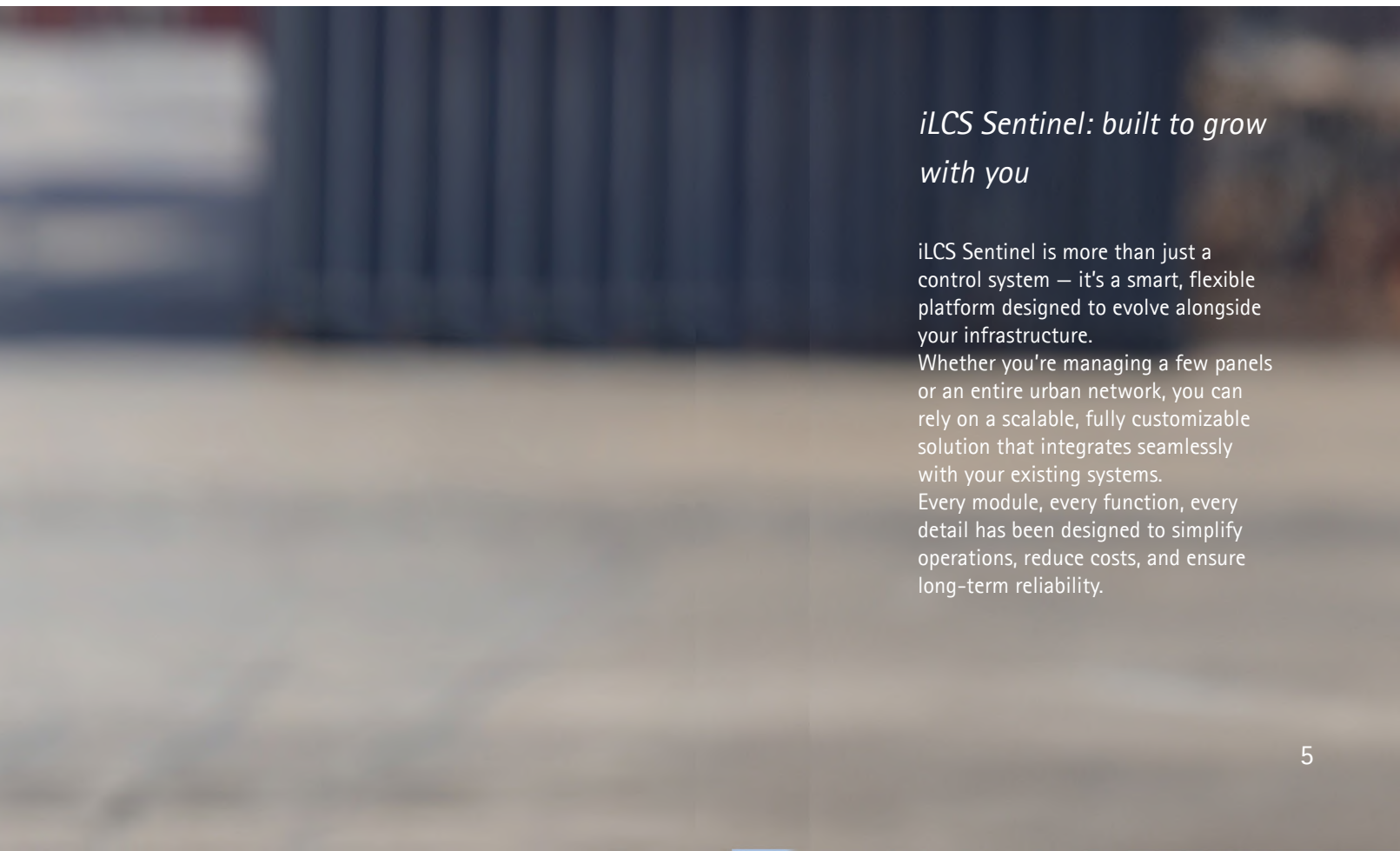
This ensures maximum flexibility for integration with any panel or system configuration.

Automatic GPS-based localization

Each unit can be equipped with **GPS** to:

- automatically record its position during installation
- simplify georeferenced management of the network
- avoid inventory errors or misassignments

In cities with dozens or hundreds of panels, always knowing where each one is located makes a real difference.



iLCS Sentinel: built to grow with you

iLCS Sentinel is more than just a control system — it's a smart, flexible platform designed to evolve alongside your infrastructure.
Whether you're managing a few panels or an entire urban network, you can rely on a scalable, fully customizable solution that integrates seamlessly with your existing systems.
Every module, every function, every detail has been designed to simplify operations, reduce costs, and ensure long-term reliability.

Everything under control, at all times

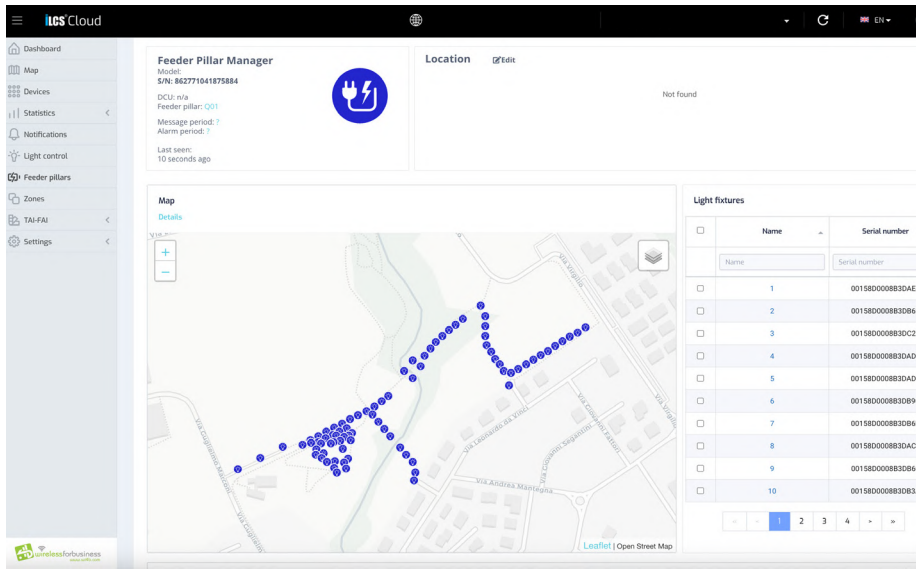
iLCS: a platform built for those who manage operations in the field

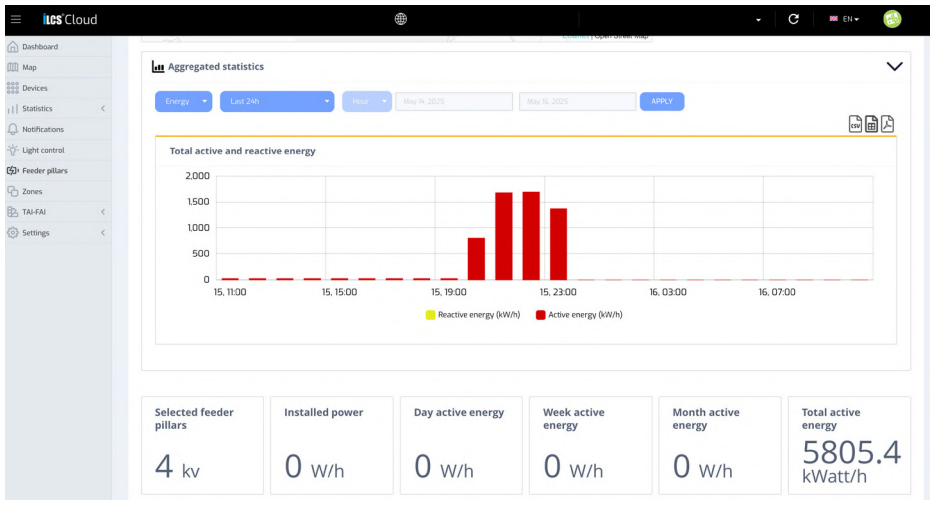
Intuitive, real-time dashboard

A modern web interface, accessible from both PC and tablet, displays the real-time status of each panel and line.
With just a few clicks, you can:

- **view anomalies, alarms**, or outages
- **send remote reset** or disconnection commands
- **filter, sort, and search** devices

All functions are accessible in just a few steps, with customizable permission levels for each user.





Automatic reports and historical analysis

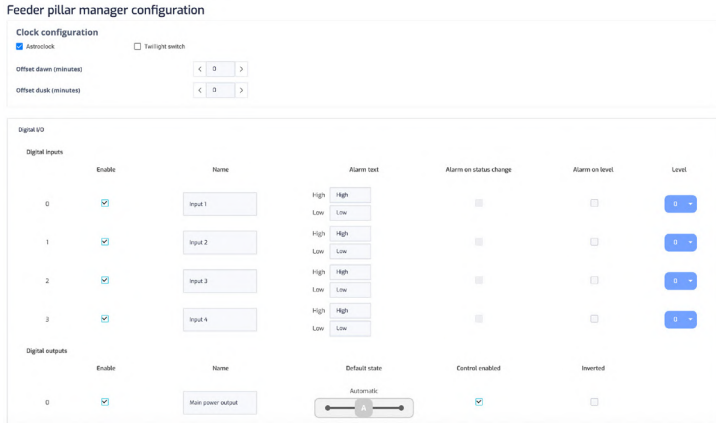
You can **export data in PDF or Excel** format, including:

- aggregated or per-panel consumption charts
- weekly, monthly, or custom-range reports
- period comparisons

All information is always at your fingertips, making it easy to perform technical analysis, administrative reporting, and maintenance planning.

Simple and flexible configuration for every need

The configuration of iLCS Sentinel is designed to be quick and highly adaptable.
Each feeder pillar can be set up in just a few steps directly from the web interface — with no need for on-site interventions or complex programming.
All settings and controls are easily accessible, allowing for streamlined setup, adjustments, and efficient system management.



Feeder Pillar Controller

Feeder Pillar Manager

Edit

Model:
Status: Connected
Internal clock: 3 minutes drift
Internal clock: 2025-05-16 09:44:07 GMT +01
Current time: 2025-05-16 09:52:03 GMT +01
Last seen: 0 seconds ago

Device Informations

Signal	Poor
Input power	Present
Battery	Good

Last configuration change: Mon Mar 17 2025 15:33:35 GMT+0100 (Central European Standard Time)

Energy

Daily	0 W
Weekly	0 W
Monthly	0 W
Total	5805.4 kW

Digital inputs

1 - Input 1	Low
2 - Input 2	Low
3 - Input 3	Low
4 - Input 4	Low

Friday
May 16, 2025
09:48:05
(GMT+01)

04:50 19:46
Time switch
Enabled
--:-- --:--
Estimated powered on hours per year : 0

Main power output

Automatic

Status: Off

Auxiliary power output

Automatic

Status: Off

Active Power

Phase 1	30.4 W	min	0 W
		max	1000 W
Phase 2	0 W	min	0 W
		max	0 W
Phase 3	0 W	min	0 W
		max	0 W
Total	30.4 W		

Statistics
Details

Enabled

Devices present in the feeder pillar

Edit

Rs485 Power meter @1

Model: SEN
RS485 Address: 1
Baud rate: 0 bps
Power meter type: bps
Power meter reading status: Working
Mod bus Status: Working
Last seen:
6 seconds ago

3-Phase

Active power 29.1 W
Frequency 49.97 Hz
Active energy 5805.3 MWh
PF -0.462

Operating time

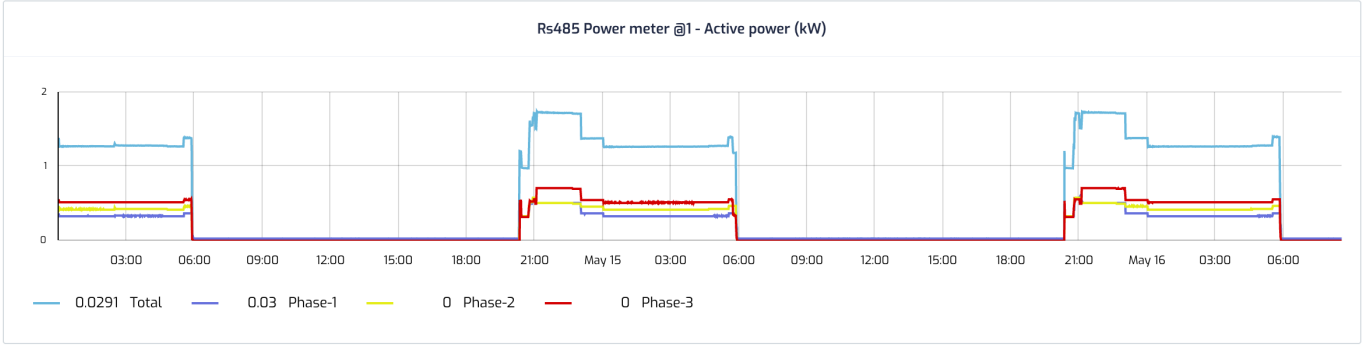
ONLINE

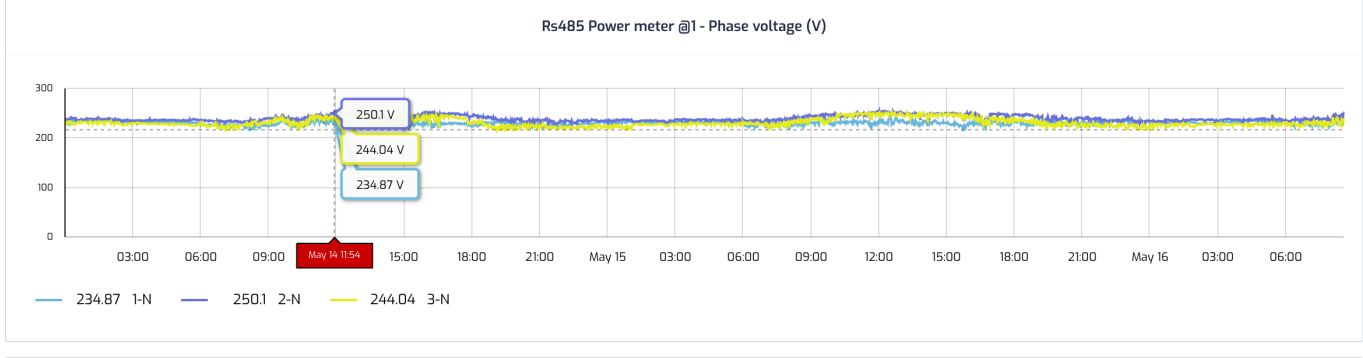
Battery tubes

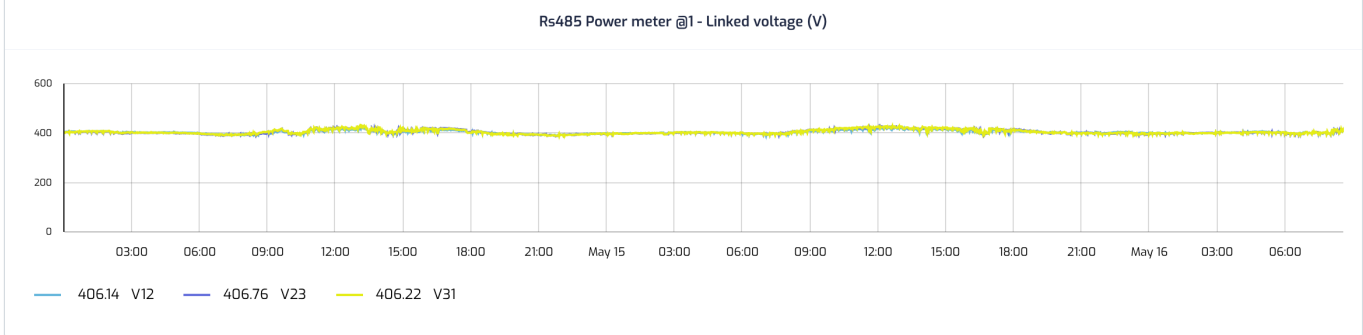
V12 406.14 V
V23 406.76 V
V31 406.22 V

Statistics

May 14, 2025 — May 16, 2025 — APPLY







Solution designed in Italy, with full control of the technology

iLCS Sentinel is a solution entirely **designed and developed in Italy.** The integration between hardware, firmware, and cloud platform is managed in-house, allowing us to ensure:

- full control over software and functionalities
- high standards of quality and security
- maximum flexibility for customizations

We use reliable, carefully selected hardware components, integrated into a platform that meets European standards and the specific needs of public administrations.

Availability and customization

LCS Sentinel is designed to adapt to both new and existing installations. We offer:

- **Customizable firmware** tailored to each client's functional requirements
- Integration with external platforms via APIs and open protocols, enabling centralized management within broader systems
- Retrofit installations, ideal for modernizing existing infrastructure without the need for full replacement
- Dedicated technical support, from initial configuration to post-installation assistance — also available remotely

Test iLCS Sentinel in the field

You can **try the system** directly on a real installation. We offer:

- pilot configuration
- fully active dashboard
- automatically generated reports
- full support throughout every step

In just a few days, you can evaluate its real operational value.

Ready to use. Designed to fit your needs.

Scalable, flexible, and ready to integrate with your systems.

wirelessforbusiness
www.wi4b.com

iLCS®
Intelligent Light Control System

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