



UltraLight™

No Compromise, Just Performance.



Introducing UltraLight™

- Enhanced battery life
- TOPAS 2540A compliant
- Intelligent performance with autoconfigured Multiphase ADS
- Lightweight

The traffic management sector faces a variety of significant challenges. These include the need for reliable and long-lasting equipment, ensuring the safety of workers, managing limited worker resources, and minimising environmental impact - all while keeping costs under control.

Introducing UltraLight, the ultimate innovation in temporary traffic signals. With unparalleled battery life, exceptional lightweight design, and compliance with the highest industry standards, UltraLight is set to redefine traffic management.

Discover the next level of reliability, convenience, and efficiency with UltraLight.



The Solution to Traffic Management Challenges

UltraLight is the first in our next generation of portable traffic lights—developed in direct response to the challenges our customers face every day. From the rising cost and scarcity of resources to the need for safer working environments and more sustainable operations, UltraLight is designed to meet these demands head-on.

Built with more energy-efficient componentry, UltraLight delivers extended battery performance that reduces the frequency of exchanges and minimises time spent on-site. This not only improves safety for workers operating near live traffic but also eases pressure on stretched teams by cutting down on manual handling and maintenance. The result is a system









that's lighter to deploy, simpler to manage, and more efficient to run.

UltraLight keeps traffic flowing smoothly thanks to its autoconfigured Multiphase ADS, helping reduce driver complaints and congestion without the need for constant intervention. It's fully compliant with TOPAS 2540A and engineered for reliability, making it a trusted choice for temporary traffic control in any environment.

By reducing call-outs, lowering carbon emissions, and streamlining operations, UltraLight offers a smarter, more cost-effective way to manage traffic—without compromising on performance or safety.



UltraLight™ Statistics

- | | |
|---|---|
|  Battery Type:
AGM / Lead Acid |  Water Ingress:
IP56 |
|  Number of Batteries:
Three |  Size:
Width: 710mm
Length: 1,000mm
H Traffic: 2,350mm
H Ped: 2,800mm |
|  Security:
5 bullet locks |  Certification:
TOPAS 2540A |
|  Signal Weight:
88.8kg with SRL Solar PLUS
84kg with standard lid.
<i>Battery weights are additional</i> |  Onboard charging available
(Optional Extra) |



TOPAS 2540A Compliance

UltraLight meets stringent TOPAS 2540A standards, ensuring that users are deploying the most reliable and compliant equipment on the market.

What is TOPAS?
TOPAS provides customers with a system via which equipment can be verified against a set of quality criteria. A TOPAS registered product means that the product has been through the process of independent technical assessment and accepted by the TOPAS body to be registered as compliant to the requirements of the specifications which it states.

What is TOPAS 2540A?
For a product to be TOPAS 2540A compliant, the traffic signal must meet a series of requirements which cover the signal’s design and scope, safety & fail-safe operation, timing & sequence control, operating modes, fault monitoring and logging, and performance & lifecycle.

In order to gain registration the manufacturer must submit a technical file to a certified technical assessor, per the TOPAS registration process. Compliance must be formally TOPAS registered to be recognised by authorities.

What does this mean for UltraLight?
UltraLight has been judged to meet TOPAS 2540A standards, the most stringent compliance in the traffic management sector. This compliance guarantees that UltraLight delivers top-notch performance with best-in-class reliability and reduced interference, keeping traffic moving smoothly and safely.



Precision Traffic Management with Machine Learning (ML)

Available as standard, preconfigured into UltraLight, **Multiphase ADS (Automatic Detection System)** is an advanced technology, designed to enhance traffic flow management and safety. It makes automatic adjustments of green times by using deep-learning algorithms to interpret the data received from our high-accuracy radar detector. It is the only truly multi-phase system.

Automatic Configuration

Multiphase ADS automatically detects and adjusts to varying traffic conditions without manual intervention. This ensures optimal traffic flow at all times, whether it's peak hours or quieter periods.

What can you expect from Multiphase ADS?

- Suitable for 2, 3 and 4-way junctions.
- Fully Adaptive/dynamic.
- Recognises HGV 'start lag' where HGV may take longer to pull away.
- Recognises cycles.
- Recognises HGV's at up to 100m and attempts to provide time for vehicle to pass.
- Recognises reverted demand (jump on red or failure to move on green) and evening peaks, but still has the ability to make dynamic changes when required.

Learning on the Job

Multiphase ADS responds in real-time to changes in traffic volume and flow, adjusting signal timings to minimise congestion and reduce wait times.

The system allows for HGV start lag, allowing extra time to clear the site. What's more, if a vehicle fails to move during a green phase (e.g. due to a car stalling), the system automatically re-services that phase. It essentially behaves as if a new demand has been detected, allowing the signal to revert to the green phase for that lane without the need for a new detection signal. This ensures that the phase continues to service traffic without becoming 'stuck' on red, enhancing overall reliability.

The system is fully optimised once it has seen morning and evening peaks, but still has the ability to make dynamic changes when required.

A quantum-leap forward in portable traffic light technology.

Multiphase ADS is the only system in the UK that has been independently modelled and **proven to reduce average queue lengths** at temporary traffic lights by up to 50%.





Advanced Detection and Configuration

With our unique TOPAS 250SB registered ADS detector auto-configured as standard, UltraLight timings adjust automatically to cope with changing traffic volumes, ensuring accurate and efficient traffic detection, **upto 50% more efficient than standard portable traffic signals**. This advanced system enhances overall performance, allowing you to focus on what matters most – managing traffic flow safely and effectively.



Run Time That Lasts

UltraLight can be used with a single, powerful Lithium battery that boasts an impressive 30-day run time. The battery choice is yours.

What's more, the run time can be enhanced further by deploying UltraLight with our patented SRL Solar PLUS.



Enhanced Battery Security

Each UltraLight features a five bullet lock design as standard, providing enhanced battery security and peace of mind. Whether in urban environments or remote locations, UltraLight's robust security measures protect your investment, ensuring uninterrupted operation.



Lightweight Design for Ease of Use

We've updated our box design to achieve even greater weight savings. The axle is now hollow, the post has been slimmed down, and we've introduced a new stability foot for improved support. UltraLight is built for easy transport and quick deployment.

Real-time Insights & Smarter Decisions with SRL Telematics

Improve safety, mobility and efficiency with SRL Telematics, our powerful telematic monitoring system, which provides you with real-time data. This ingeniously small communications device is integrated in the signal box, with an easy-to-use dashboard and sophisticated functionality which enables you to enjoy full oversight of your traffic management system from anywhere.

SRL Telematics is custom designed for SRL customers and is available 24/7 via a secure web portal.



Live Location & Signal Status:

Instantly see the exact location and live signal status of your traffic lights, eliminating wasted journeys and ensuring you're always in the know.



Battery Level Monitoring & Alerts:

Easily identify battery levels in real time, allowing you to manage your traffic lights more efficiently and prevent unexpected downtime.



Geofencing & Utilisation Insights:

Gain deeper understanding of your equipment's usage patterns with geofencing technology.



SRL provides onboarding and ongoing training support for our telematics system.

We'll work with you to set up alerts and system rules to offer timely reminders of your now infrequent battery exchanges. Alerts can be set via SMS or email, to specified individuals, whatever works for you.

SRL Telematics is also capable of providing a range of easy-to-digest reports, which can be helpful in reporting back to your customers.



Modular Flexibility and Cost Efficiency

Like SRL's other portable traffic lights, UltraLight is designed as a modular system, offering exceptional flexibility in deployment.

One of its key advantages is the ability to use any controller box with either a pedestrian post or a traffic post, providing significant benefits for fleet utilisation. This feature allows you to optimise your fleet by seamlessly adapting to different project requirements, minimising downtime, and maximising efficiency.

This modularity not only simplifies storage and transport but also enhances operational efficiency, ultimately leading to greater cost savings. With SRL, you are investing in a versatile, future-proof solution that evolves with your needs, ensuring long-term value and adaptability.

Ready for Anything - Robust and Reliable

SRL have placed sizeable investment in refining both our software and hardware, in order to bring you UltraLight.

The new, enhanced radio signal connectivity ensures a more robust and dependable communication between traffic signals, thereby improving system reliability and performance.

This advancement significantly reduces interference, resulting in smoother, uninterrupted traffic management.

What's more, with upgraded hardware components, and a new IP56 rating against water ingress, UltraLight is more durable, efficient, and responsive than ever before, providing unmatched reliability in even the most challenging environments.



UltraLight™

A safer, smarter, and more sustainable choice for traffic management.

For more information about UltraLight,
Visit srltraffic.ie or call us on 01-5384971

