SWARCO
HAZARD WARNING SOLUTIONS
VEHICLE ACTIVATED SIGNS

The Better Way. Every Day.

swarco

Encourage safer driving with a range of speed warning signs including speed limit reminder signs and speed indication signs.

SPEED WARNING SIGNS

Speed Limit Warning

As drivers enter a built up residential area, or where there are adverse risks to road users, our speed warning signs can be used to display a warning message to drivers advising them to slow down.

- To drivers exceeding the speed limit signs can warn them to slow down and display the speed limit
- As well as signs to reinforce the speed limit, SWARCO also offers Speed Indication signs that display the speed of the approaching vehicle making drivers as well as all other road users aware of the vehicles speed
- A variety of power solutions are available with SWARCO's patented low power LED system; choose from solar, mains or switched mains
- Automatic Dimming to ambient light levels
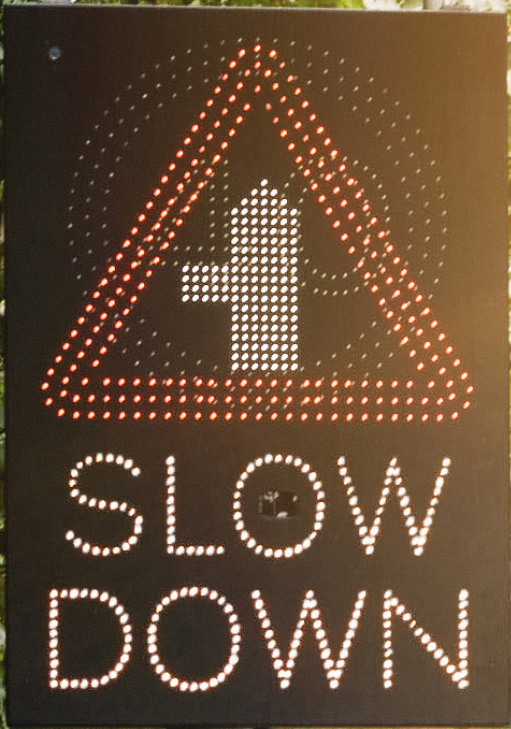- Also available as moveable, battery powered signs (MVAS)

Complete Solutions

- All built in to a single enclosure, even with a solar solution, there are no external battery boxes, ensuring all components are situated in a single water resistant enclosure
- Use a number of these signs across a neighbourhood or borough to improve speed awareness across the area and use the data logging to analyse local traffic trends such as volume and speeds to detect for speeding issues or understand peaks and troughs in traffic flow
- Remote data logging available using the Zephyr solution

Benefits

- Improving road safety and speed awareness
- With a 15 year design life, these are a reliable option
- All standard VAS are TSRGD Compliant, however we also provide bespoke solutions
- Made at our UK production site
- Free warranty as standard, maintenance agreements and extended warranties are also available

Certification and Approvals

- CE Certified to EN12966
- TOPAS Highways Agency registered
- Produced and designed in an ISO Quality, Environmental and Health and Safety registered location

SPEED
WARNING
SIGNS

SWARCO

SLOW DOWN

PREVENT
INCIDENTS
IN REAL TIME

Intercept the hazards before they occur. Hazard Warning signs can be used at dangerous junctions or roads that are susceptible to adverse weather conditions.

HAZARD WARNING SIGNS

- Give warning to motorists of hazards ahead or of dangerous road conditions
- Activation can be from a multitude of inputs; including queue or junction detection, weather monitoring or from a central management system. These are capable of interfacing to UTMC central systems too, we have a full solution to suit your needs

report to ensure safety critical signs are always in optimum condition. All of which can be accessed remotely using the Zephyr Solution

- SWARCO can also provide complete solutions for road areas prone to extreme weather. Our flood warning system enables you to monitor flood levels at all times and activate warning signs automatically

Complete Solutions

- Tackle particularly dangerous junctions with our complete warning solutions bespoke to your project requirements
- Receive live information from your sign including the number of activations and a full fault or error

Certification and Approvals

- CE Certified to EN12966
- TOPAS Highways Agency registered
- Produced and designed in an ISO Quality, Environmental and Health and Safety registered location
- Manufactured in our UK production plant

School sites are a unique environment where safety is paramount.

With a range of options to choose from, allow us to make your school sites safer.

SCHOOL WARNING SYSTEMS

Functionality

- Timetable your signs to fit with local school hours and term times
- With a low power consumption, renewable power sources such as solar are a suitable solution
- A variety of options available from flasher only units to Vehicle Activated Signs featuring the school crossing triangle warning symbol

Benefits

- With Profectus you can remotely enter up to 255 seperate timetables up to three years in advance, reducing the need for engineer site visits
- School signs can introduce variable speed limits, reducing speed around schools at peak times
- Ensure safety of vulnerable road users and make approaching vehicles aware of the potential hazard
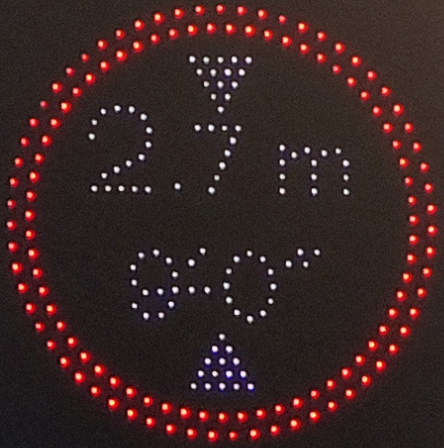
Certification and Approvals

- CE Certified to EN12966
- Produced and designed in an ISO Quality, Environmental and Health and Safety registered environment
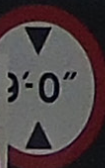- Designed and manufactured in the UK

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SCHOOL
WARNING
SIGNS

Low bridge

▼ 2.7 m 9'-0" ▲

Overheight vehicles turn around

2.7 m
9'-0"

9'-0"

WARNING VERY
LOW BRIDGE

2.7 m

OVERHEIGHT VEHICLE DETECTION

Prevent bridge strikes and allow drivers to safely navigate around low bridges and tunnels.

DETECTION OF OVERHEIGHT VEHICLES

Functionality

- A variety of detection methods available
- TSRGD Compliant fixed messages available
- Also available in full colour RGB VMS to display any message or graphic required
- Ideal for use in locations with low bridges, restricted access due to height or tunnels
- Use the signage to not only warn drivers but to divert them to an alternative route

Complete Solutions

- Remote monitoring from Zephyr and data logging is also available, statistical feedback is always available recording the number of activations, sign status and power status as well as a full error reporting system
- Host multiple signs on a single remote monitoring system giving you, an overview at the click of a button

Benefits

- Reduce the number of bridge strikes and the knock on effects on the traveller
- Ensure safety of all road users with this dynamic warning
- Use the data for analysis to register the number of activations and driver behaviours

Certification and Approvals

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Manage timetables and view the status of your signs from anywhere, any time.

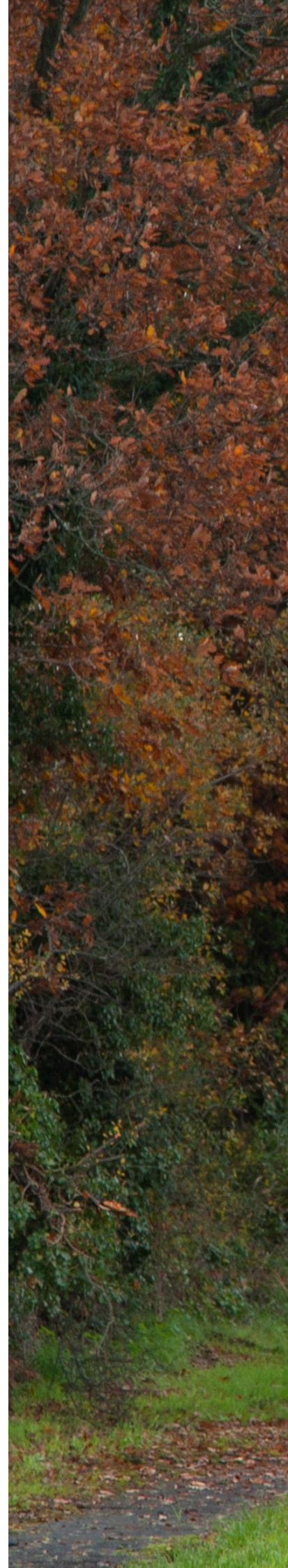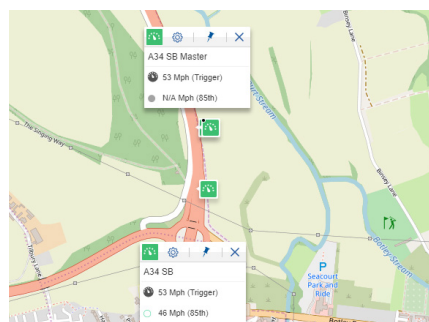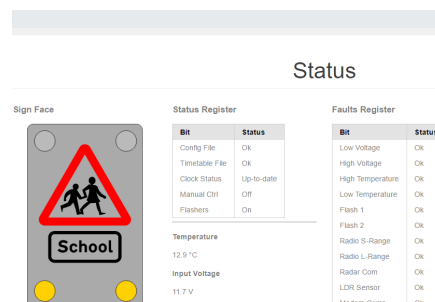## REMOTE MONITORING AND STATS

Set timetables, 'special days' or check the sign status and download data logging remotely at the touch of a button, from anywhere. Being able to review the sign status and check vehicle statistics as registered by the sign gives you the additional information you need to be able to monitor the safety of your roads.

Monitoring is available on-site via the signs internal wi-fi or remotely via a web browser.

Key Features:

- Manage sign timetables, on/off times or set sleep modes

- View sign status including power, error messages, power consumption and temperature monitoring
- Data logging to monitor traffic trends such as traffic volumes, speeds and times to analyse the local traffic flow
- Setup email or SMS alerts for power or GPS failure, extreme temperatures or communications failure
- Timetabling mass messaging and scheduling allows for strategy planning across a region
- Communications include GPRS & 3G/4G
- UTMC Compatible

Status

Sign Face

Status Register

Bit	Status
Config File	Ok
Timetable File	Ok
Clock Status	Up-to-date
Manual Ctrl	Off
Flashers	On

Temperature
12.9 °C

Input Voltage
11.7 V

Faults Register

Bit	Status
Low Voltage	Ok
High Voltage	Ok
High Temperature	Ok
Low Temperature	Ok
Flash 1	Ok
Flash 2	Ok
Radio S-Range	Ok
Radio L-Range	Ok
Radar Com	Ok
LDR Sensor	Ok
Modem Coms	Ok

A34 SB Master
53 Mph (Trigger)
N/A Mph (85th)

A34 SB
53 Mph (Trigger)
46 Mph (85th)

DATA & ANALYSIS

PROFECTUS

Profectus is the smart addition to any VAS or school sign. Profectus is a web based sign management system, allowing you to manage timetables, power status, reports and access data logs via a web-interface whilst on-site by connecting to the signs wi-fi.
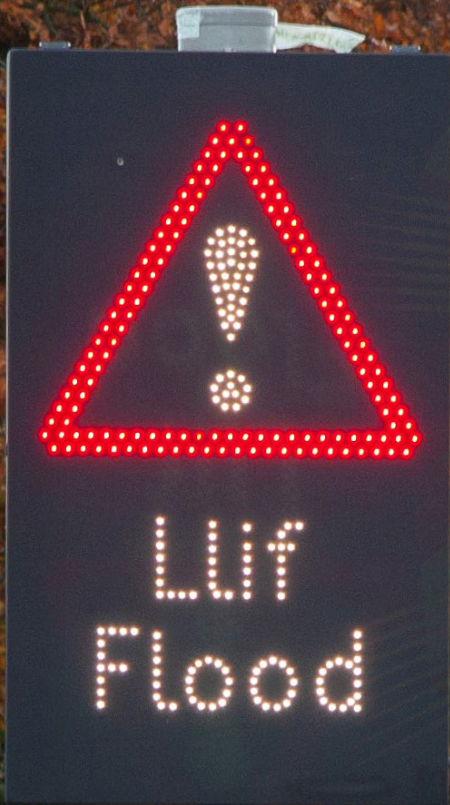
- Connect up to 8 signs from a single master sign across a 6km radius
- Set up email or SMS alerts for power or GPS failure, error messages, power consumption and temperature monitoring
- Manage timetables,set sleep modes and on/off times

ZEPHYR

SWARCO Zephyr is the ultimate sign and parking management system. Zephyr is a user friendly and powerful cloud based management system.

- Manage your sign from anywhere, any time via a cloud based interface
- Set safety sign speed thresholds and timetables
- Assets are located on pan/zoom map
- Full remote monitoring of power, communications, LEDs and message setting
- Access data logging statistics at any time and set up auto-running reports

SWARCO | The Better Way. Every Day.

SWARCO is a growing international group providing the complete range of products, systems, services and solutions for road safety and intelligent traffic management.

With five decades of experience in the industry, the corporation supports the growing mobility needs of society with turnkey systems and solutions in road marking, urban and interurban traffic control, parking, public transport, infomobility and street lighting. Cooperative systems, I2V communication, electromobility, and integrated software solutions for the Smart City are latest, future-oriented fields in the group's portfolio.

www.swarco.com