

SWARCO  
HAZARD WARNING SOLUTIONS  
VEHICLE ACTIVATED SIGNS



The Better Way. Every Day.





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

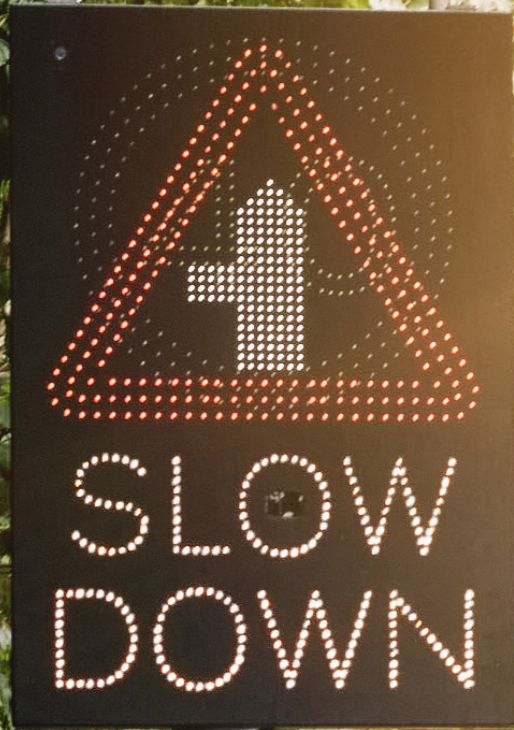
### Certification and Approvals

- 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





# 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

### 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

- 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

### 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 separate 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



SCHOOL  
WARNING  
SIGNS





# 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

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



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
- UTM Compatible

The screenshot displays the 'Status' page of the management interface. On the left, there is a 'Sign Face' section showing a 'School' sign icon. The main area is divided into two registers: 'Status Register' and 'Faults Register'. The 'Status Register' includes fields for 'Config File', 'Timetable File', 'Clock Status', 'Manual Ctrl', 'Flashers', 'Temperature' (12.9 °C), and 'Input Voltage' (11.7 V). The 'Faults Register' lists various system checks like 'Low Voltage', 'High Voltage', 'High Temperature', 'Low Temperature', 'Flash 1', 'Flash 2', 'Radio 9-Range', 'Radio 1-Range', 'Radio Com', 'LDR Sensor', and 'Modem Coms', all with 'Ok' status. On the right, a map shows the location of the sign with a pop-up window for 'A34 SB Master' displaying '53 Mph (Trigger)' and 'N/A Mph (55h)'. Another pop-up for 'A34 SB' shows '53 Mph (Trigger)' and '46 Mph (55h)'.

# 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](http://www.swarco.com)

