

SWARCO  
VEHICLE ACTIVATED SIGNS  
SCOTLAND PROSPECTUS



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

- Our speed warning signs activate once a driver meets the set speed threshold. A roundel featuring the speed limit will appear as a reminder, which can be accompanied with optional flashers and 'SLOW DOWN' message
- We also provide Speed Indication Devices (SID's) that display the speed of the approaching vehicle making drivers as well as all other road users aware of the vehicle's speed



They are often used as drivers enter lower speed limits within residential areas, or in more rural locations where other means of enforcing the speed limit may be difficult.

### Sustainable Power

- Our low power lens design means we can provide off-grid and sustainable power solutions including solar and fuel cell.
- We can also supply these as mains powered or re-chargeable battery powered

### 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
- Installation and maintenance available from our team of nationwide engineers.

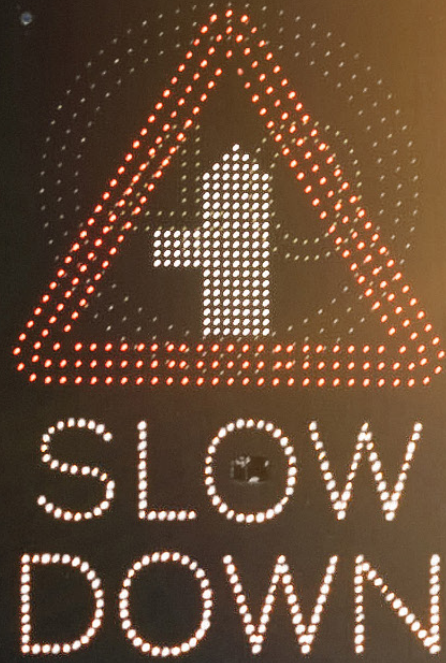
### Certification and Approvals

- CE Certified to EN12966
- TOPAS 2516 approved on TSRGD designed signs
- Designed and manufactured in the UK



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

Hazard warning signs are used to warn motorists of hazards ahead or of dangerous road conditions.

Activation can be from a multitude of inputs, use these systems to warn of;

- Icy conditions
- Flood detection
- Dangerous bend or junction
- Low Bridge/ Overheight vehicles
- Cyclists

These can interface to UTM central systems too, we have a full solution to suit your needs.

### Complete Solutions

- 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

- Automatic notifications can also be setup to notify your team or even the public if required.
- A full bespoke solution for your needs including design, installation and maintenance.

### 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

*Below: Flood System in Wales, in both English and Welsh  
A solar powered cyclist detection system for a rural road with blind bends*





# ANGUS COUNCIL



**84**  
signs installed



**Solar powered,**  
even in the winter

Flexible design, suitable for

**20, 30 & 40mph**  
speed limits

A series of intelligent Vehicle Activated Signs (VAS), were installed to help keep drivers safe by warning them if they are driving too fast and advising them of the speed limits in place throughout the county of Angus in Scotland.

Angus Council approached SWARCO to help them find ways of tackling the issue of speeding vehicles. In turn, we specified and installed 84 VAS signs to be used in 20, 30 and 40mph zones, with a 'SLOW DOWN' message activated once the speed threshold is breached. The signs are ultra-low power, with a bespoke lens design that allows them to be solar powered, even during the winter.

The fully transportable signs can be sited according to the varying needs of the Council and have further data collecting functions, providing information on traffic volumes as well as speeds, which in-turn can be used to inform traffic planning and public transport routes.

Walter Scott, Service Leader for Angus Council's Roads and Transportation says the signs are having a positive impact: "The VAS have been installed to help us to tackle local speeding issues, as we are determined to ensure that everyone is safe on and around our roads network. So far, they have proved to be solidly built, visible and effective. Operating with a single plug for the solar panel, as well as the opportunity to adjust both the location and speed settings, the signs have provided an ideal solution, giving us simplicity and flexibility as part of our wider efforts to reduce speeding and enhance road safety."

John Pickworth, Managing Director of SWARCO Traffic, says the project shows the company's ability to cater for specific Councils and specific regions: "Angus traditionally experiences darker and longer winters. As such, we designed the signs for the location to ensure that power remains reliable all-year round. This doesn't just ensure optimal functionality but also to help the Council meet its sustainability targets."

**Sustainable  
Power**



# STIRLING COUNCIL



Stirling Council use the Moveable range of VAS (MVAS) across their road network to assess speeding issues as well as to raise awareness of the speed limit to drivers in a dynamic way.

**Stephen Easton, Traffic Management Officer at Stirling Council says:**

*"they have been used in various locations in the region where they have proved to be very successful. The data that the units provide are useful in the assessment process for traffic reduction measures... placing the signs at random locations provides the desired reaction to local and outside motorists that their speed is too high and to be more aware in future when driving that particular stretch of road. "*



Left: Example of a standard MVAS for 20,30 & 40mph speed limits  
Right: An example actual speed indicator device or SID



# GOING OFF-GRID

We want to help you to be more sustainable, minimise disruption to wildlife and keep costs to a minimum. That's why we specialise in off-grid solutions and you could too.

An off-grid solution such as solar, may be required in more rural areas where mains power isn't readily available. Not only does this mean you don't need to go to the expense of bringing mains power to a new location but it also means that disruption to natural environments and beauty spots can be left uninterrupted.

With solar, not only does it mean you can do away with disruptive and expensive trenching but it also means that you're using renewable power sources. The benefits of a solar solution are that it is sustainable as well as self-sufficient.

We also offer remote data logging which means you can minimise travel to site as you will automatically be notified if any there were issues with the sign or it needed site attendance.

Our unique lens system means our signs are ultra low-power, so that even in areas with limited daylight hours, we're able to offer renewable, off-grid solutions to our Scottish customers.





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

REMOTE MONITORING AND STATS

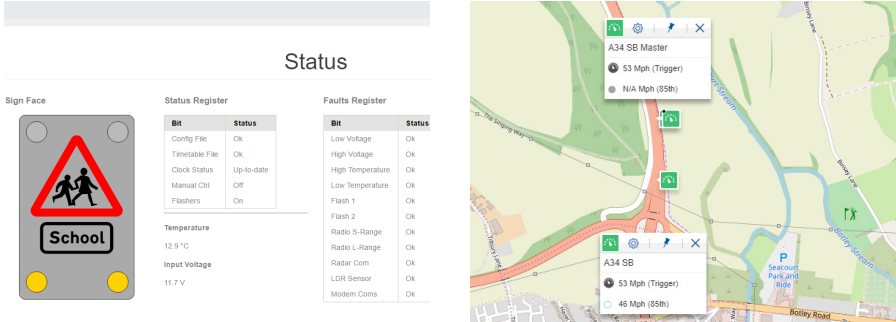
Set timetables, 'special days' or check the sign status and download data logging remotely at the touch of a button, from anywhere. Being able to review the sign status and check vehicle statistics as registered by the sign, gives you the additional information you need to be able to monitor the safety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



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 'Parent' 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 a 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.

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