

SMART Sign^{GPRS}

Minimal maintenance, ease of operation, energy efficient and above all time-saving, makes this a product range everyone in the TM industry should be considering.

Richard Pearson
Manager Associated Asphalt Traffic Management

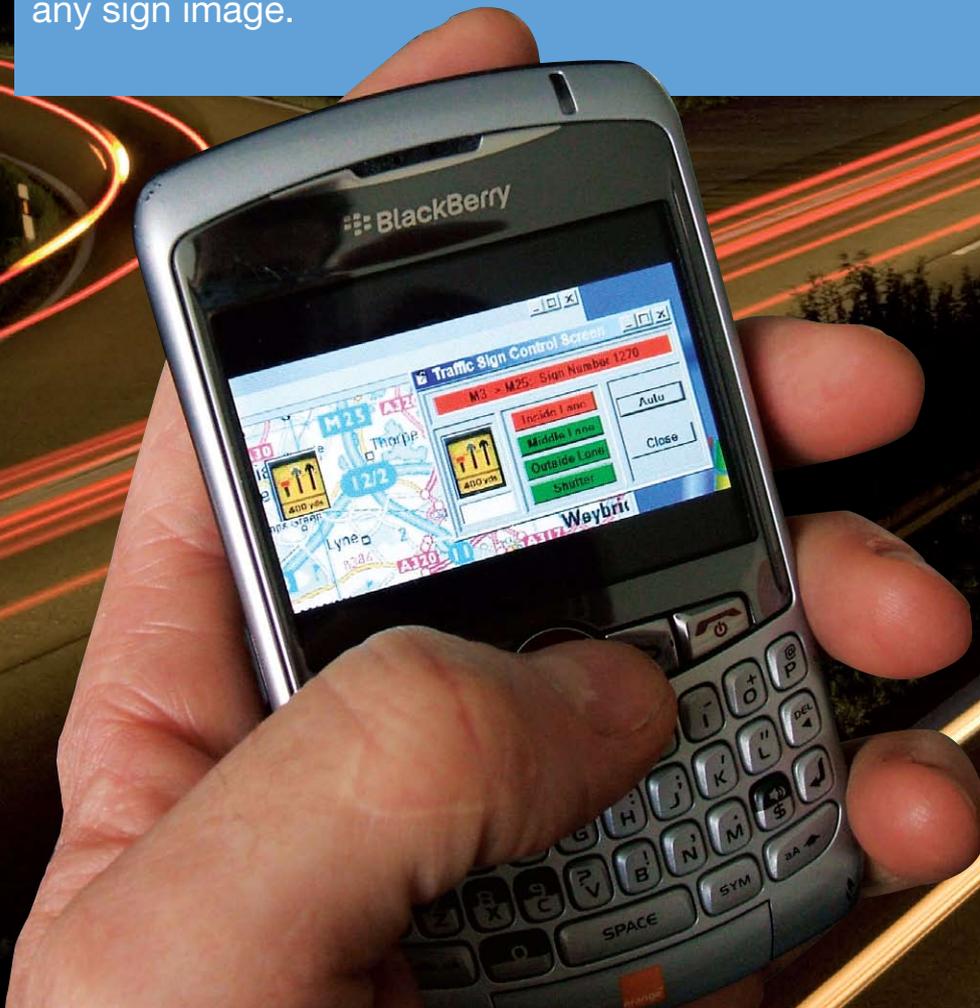
SmartSign GPRS is a low cost remote controlled variable message system (VMS). SmartSign GPRS allows you to change your signs using an internet connected device. As a modification of a standard sign plate, it allows for strategic remote control of virtually any sign image.

KEY BENEFITS

- Use less manpower to deliver an enhanced service
- Longer working windows
- Simplified and improved risk assessment
- Reduced capital expenditure on impact protection vehicles and other specialised equipment
- More dynamic traffic management
- Higher quality tenders, attracting higher premium prices

With SmartSign GPRS you can take advantage of low installation costs; you also benefit from low maintenance and servicing requirements. SmartSign GPRS can be combined with SmartBlind and SmartFrame and is suitable for use with Lattix and conventional posts. SmartSign GPRS has a modular design, allowing you to change any module with ease.

Any failure will be reported directly to TM Safety Signs Ltd for an instant response. All products are serviceable on site. Every unit comes with a 12-month warranty. All units may be solar powered for cost, durability and reduced carbon footprint. SmartSign GPRS is 95% recyclable.



To discover how TM Safety Signs can help your company become **safer**, **greener** and **more efficient** get in touch with one of our representatives:

T 01823 481040
E info@tmsafety signs.com



HOW IT WORKS

You use the internet to access our secure web site. Log on to your signs using your web browser. An interactive page will indicate your sign status and allow control. You activate the desired image and instantly receive a confirmation message telling you that the request has been carried out. The main advantage of the secure web site is that it can be accessed from any suitably authorised computer, including a handheld smartphone. SmartSign GPRS is battery powered and may be mains, wind or solar charged.

PERFORMANCE

SmartSign GPRS has two main competitors, permanent 'gantry' type VMS systems, and the traditional manual traffic management operation.

VMS offers tremendous flexibility but at a cost. Coverage is sporadic due to the high capital expenditure. A typical VMS system will cost between 5 and 30 times as much as a single SmartSign GPRS unit. Strategic diversion signs that require manual operation may be difficult to access at the very times you need them. With SmartSign GPRS you can control these signs from a central location with total confidence. SmartSign GPRS can be used for Chapter 8 style traffic management. With this system, one 'master' unit will control an array of 'slave' units via radio control. This cuts data costs and power requirements.

CONSIDERATIONS

- Data costs** Wireless data transfer can become expensive. The unit can be configured to only transfer data when commands are sent, or a fault develops
- Susceptibility to wind damage** when fitted with SmartBlind. We have worked hard to improve SmartBlind. With the innovation of polycarbonate shields, the system is far more resistant to strong wind events
- System Mass** Most clients elect to position SmartSign GPRS units in permanent locations, where they can be activated only when needed
- Power requirements** SmartSign GPRS uses much more power than its sister products. This necessitates additional battery capacity and larger solar panels if mains power is not available
- Build quality and suitability** We continually strive to improve quality. We have worked with our customers to identify weaknesses and address them one by one. We will always give sound an impartial advice to a potential client



SmartSign GPRS was developed in response to a specific client request for a strategic remotely operated diversion sign. SmartSign GPRS met the criteria for a low cost system that could manipulate traffic when it was impossible for personnel to access the signs. The ability to use renewable energy sources made the system particularly attractive as installation costs were much lower than comparable systems.

Chris Nagle
Director TM Safety Signs Ltd

LEGAL USAGE

- SmartSign is Highways Agency (HA) type approved
- The product can turn virtually any sign face into a VMS
- TM Safety Signs Ltd will supply any sign plate to current standards
- All servicing and modifications must be carried out using original parts, and under the supervision of TM Safety Signs Ltd
- Industry standard mounting attachments are used throughout: Quick-Fit for the temporary units, and Sign-Fix channel for the permanent

RETURN ON INVESTMENT

To comply with the twin requirements of keeping traffic moving and motorists informed, SmartSign GPRS offers unparalleled value for money. Even after years of use, your SmartSign GPRS will still be valuable. A typical upgrade (after 5 years of service) will cost less than 40% of the initial outlay. For this we offer a full 12-month 'as new' warranty.

SmartSign GPRS is typically 30 times cheaper than conventional VMS. As much as 80 minutes added onto a working window. Diversion units no longer need to be accessed allowing instant strategic traffic management. A potential 86% reduction in number of carriageway crossings by personnel. Solar or wind power means minimal infrastructure costs. Reduced data costs through 'master/slave' radio system.

Clients include:



Balfour Beatty

JACOBS



ATKINS

