

SWARCO HIGHWAY VMS

HIGHWAYS ENGLAND APPROVED SIGNS FOR UK MOTORWAYS & HIGHWAYS



SWARCO supplies first-class UK highway VMS installations using our patented lens technology to deliver unmatched optical quality. SWARCO supplies National Highways approved AMI, MS3 and MS4 signs. Using full-colour LED displays, our motorway signage is relied upon for guiding road users safely on highways.

RELIABILITY

Our reliable VMS are designed to improve overall traffic flow and reduce energy consumption as a part of SWARCO's commitment to creating environmentally sound products. SWARCO's highway VMS are designed to have a non-aging effect on the LEDs as a result of a very low operating current on the LEDs. Resulting in low power consumption and reduced maintenance.

KEY BENEFITS

When you choose our highway VMS you get a reliable solution made by SWARCO.

The SWARCO VMS offers:

- 15 year+ design life
Highly reliable product, reducing the number of site visits required
- LED brilliance, meets all standards and
Highways England approved.

A COMPLETE SOLUTION

SWARCO provide the full requirements of TR2607 sign sizes from AMI, MS2, MS3 2x16 and MS3 3x18 as well as MS4 and MS4-R. TR2607 also allows new sign types or non-standard signs to be created using the 20mm pixel pitch full colour full matrix approach and the modular SWARCO platform is ideally placed to meet these needs.

SWARCO have also upgraded the communications of its signs to DSL which can be run using existing highway sign RS485 cabling but increases the bandwidth to 10Mbps as well as allowing traditional communications via RS485.

Where required for enforcement the signs have been HOTA (Home Office Type Approved) to cover red X lane closures and speed enforcement.



SWARCO MS3s, MS4s and AMIs on the M1 at Milton Keynes

SWARCO VMS FOR UK HIGHWAY & MOTORWAYS TECHNICAL DETAILS:

FEATURES OF THE VMS

- **LED EXCELLENCE** - Patented LED lens system ensures highest optical efficiency and no degradation of LEDs over time due to extremely low operating current
- **EFFICIENCY** - Best value for Optical Performance Efficiency (OPE) – the key figure for evaluating optical efficiency, energy consumption, operating costs, lifetime, perceptibility and durability
- **EASY MAINTENANCE** - Easy to install as well as simple replacement of parts; no tools required, time needed on site is minimal, reducing road downtimes keeping your team safe.
- **NO GLARE** - Anodized aluminium and coated, no front screen needed
- **FUTUREPROOF** - Can be controlled by the traditional RS485 communications but can also be upgraded to DSL, taking you from 115kB to 10Mbps
- **RELIABLE AND BUILT TO LAST** - All our VMS are designed and manufactured by SWARCO in Europe. The build quality is built to last and design life is 15 years +. We have the knowledge and resource to carry out scheduled maintenance, reducing your downtime.



An MS4 and MS3 sign with site attendance from SWARCO

TECHNICAL DETAILS: UK Highways VMS

Pixel Pitch	20mm Pixel Pitch
Light distribution	B3 (other beam widths available upon request)
Protocol	UTMC, NTCIP (others also available upon request)
Communications	FuturCOM2 to roadside controller. Roadside controller has NMCS2 over NRTS
Certification	TR2607C, TR1100 & MCH1600, UKCA EN12966 certified
Interfaces	RS485/RS422, Profibus, Profinet, Ethernet IP, WLAN others on request TCP/IP connection via RJ45 digital inputs digital and analogue sensors
Mounting	C-rails, Pipe clamps & other constructions on request
Power Supply	80/265V AC, 12 - 48V DC Optional: solar, fuel cell
Protection Classes	IP45 -IP65