SWARCO
RGB FULL COLOUR MATRIX

Full colour Variable Message Signs (VMS)

FULL COLOUR DISPLAYS

FOR ALL APPLICATIONS

SWARCO's RGB full colour matrix Variable Message Signs (VMS) can be integrated into almost any highway application due to their modular build and full colour display. Applications include but are not limited to parking guidance, traffic information and use on the motorways.

OUTSTANDING OPTICAL PERFORMANCE

Using SWARCO's patented lens system we can offer the highest optical efficiency, with incredibly low operating currents ensuring low energy consumption and improving the lifecycle of the VMS.

We are able to offer a fully compliant EN12966 certified product, a variety of beam widths, pixel pitches and tailer made adaptations suited to every application.

KEY BENEFITS

• Sustainable and unbeatable design life

• Full colour display, any text or graphic can be displayed

• A variety of pixel pitches for all road speeds

• UTMC compliant

• CE Certified to EN12966, EN12899

FOR ANY APPLICATION

SWARCO's full colour VMS are modular in design, enabling us to offer single modules up to large motorway gantry signs. The signs can also be used in combination with parking controllers, traffic monitors or detectors to display any information required including parking space availability, live journey times and traffic information.

FLEXIBLE CONTROL

Designed with the end-user in mind our VMS have multiple methods of control. Our signs are UTMC compliant and can also be controlled via SWARCO's own cloud-based software, Zephyr.
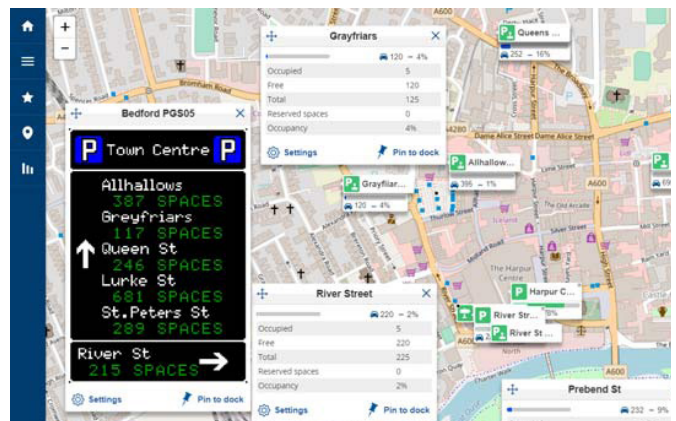
The signs can communicate via GPRS, 3G or 4G.

Top Image: VMS used to display live parking availability and parking guidance
Bottom Image: The largest VMS in the Southern Hemisphere used for lane control at Sydney Airport

The Better Way. Every Day.

swarco

ZEPHYR: THE CLOUD BASED CONTROL SYSTEM FOR VMS

- The cloud-based software is the ultimate sign management system. Specifically designed for full colour VMS and parking guidance systems

- Access Zephyr anywhere via a web browser

- The easy to use interface is specifically designed for full colour matrix signs meaning any message, image or pictogram can be used via simple drag and drop, free text or upload via bitmaps

- Remote monitoring of assets

- Built in TSRGD rule checker to ensure any free-text messages meet the required highway standards

- Location management via the map, pinpointing your assets on a zoom and pan map

- Statistical information and report generation

- Quickly view asset status, schedule and fault reports at the touch of a button

- Hosted in a secure ISO27001 certified datacentre, information is safe yet accessible

- Variety of communications include popular options such as GPRS, 3G/4G and UTMC compatible

Top Image:VMS setup in Zephyr for displaying parking guidance
Bottom Image: Multiple sign locations viewed and key signs 'docked'

TECHNICAL DETAILS: FULL COLOUR MATRIX VMS

Light Source	High Power LED's
Housing	Modular design principle in seawater-proof, powder-coated profiles made of aluminum AlMg3 or stainless steel (V4A, 1.4571
Protection Classes	IP56 – IP65
Temperature Classes	T1 (-15°C to +60°C) / T2 (-25°C to +55°C) / T3 (-40°C to +40°C) / T4 (-15°C to +55°C including sun radiation)
Interfaces	RS485/RS422, Profibus, Profinet, Ethernet IP, WLAN others on request, TCP/IP connection via RJ45 digital inputs, digital and analogue sensors
Protocols	FC2, FC2 via profibus, TLS 2002 / 2010, XDR/DAP, NTCIP, UTMC others on request
Optics	· Optical equipment fits into the matrix · luminance ratio (contrast) up to 100, even at low sun position <5°
Pixel Pitch	12 / 15 / 16 / 20 / 25 / 30 / 35 mm
Light Distribution	Beam width classes from B1 to B7 can be fulfilled with the highest luminance class
Power Supply	80-265 VAC 12-48 VDC Optional; Solar, Fuel Cell
Maintenance Access	Easy Maintenance Access Rear door or front matrix access (depending on the type of variable message sign)
Certification	EN 12966:2005+A1:2009, EN12899 CE-certification by SGS/INTRON BASt-certified

The Better Way. Every Day.

swarco