



Variable Message Signs (VMS)

| MAIN FEATURES | |
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| Certificate | EN12966-1:2005+A1: 2009 |
| Type of sign | Full or dual colour LED matrix signs that shows pictograms and text in up to six traffic colours – white, yellow, green, red, blue and orange. |
| LED | LEDs with high luminous intensity and long-life expectancy. |
| Maintenance | The hardware is designed so that each part can be easily removed and replaced. |
| Brightness control | Brightness could be: <ul style="list-style-type: none"> a) Automatically adjustable using an external light sensor. b) Automatically adjustable using a day time precise algorithm. The precise daytime brightness algorithm depends on the geographical location of the sign, taking into account daytime changes throughout the year. c) Pre-adjusted or set from the system. |
| Temperature monitoring | <p>The VMS is equipped with sensors to continuously measure the temperature inside the cabinet.</p> <p>The temperature monitoring and control system provides the optimal working temperature and prevents condensation or component overheating. The system also protects the LEDs from temperature peaks during the sign operation.</p> |
| Internal time | The VMS has real time clock with 2ppm precision. |
| Operation logs | <p>The logging system provides information about the VMS working conditions. Logs are stored in the VMS internal memory e.g.</p> <p>VMS reset, maximum and minimum temperature, cooling and heating system activation, messages displayed, malfunctions e.g. LED errors individual LEDs, each colour, light sensor, overheating, or communication errors. The precise time each log event happens is recorded in the VMS memory.</p> |

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| Cooling | Air circulation cooling with fans, air filters and vents. |
| LED errors | LED error detection feature. LED self-error detection and thermal error. The error history is stored in the VMS memory. The self-diagnostic testing does not affect the display information. |
| Interfaces | Ethernet, RS232, Wi-fi, Bluetooth, GSM GPRS |
| Protocols | NTCIP UTMC NMCS2 with others available |
| Power supply | 230V AC, 12V DC |

| MECHANICAL FEATURES | |
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| Material | Aluminium AlMg3, powder coated |
| Housing colour | Grey, RAL 9007 |
| Front colour | Black, RAL 9005 |
| Physical performance | T1, T2, T3 / P3 in accordance with EN12966 |
| Resistance to pollution | D3 in accordance with EN12966 |
| Opening | Front opening |

| OPTICAL FEATURES | |
|---|---|
| Optical performance in accordance with EN12966 | Luminous intensity: class L3 / L3(*) / L3(T) Contrast ratio: class R3 Beam width: class B3 Colour: class C2 |
| LED currents | Less than 20% of the nominated current for each colour, providing long-life LEDs. Constant current LED drivers ensure stable luminance even with fluctuating supply voltages. |
| LED protection | UV resistant lenses for each LED |

DISPLAY FEATURES

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| Pixels pitches | 25mm 20mm 16mm 10mm options |
| Pixel composition | 1 SMD LED |
| Flashers diameter | 125mm 200mm simulated within the Matrix field to TSRGD |

OPERATION

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| Text messages | <p>The VMS is able to display all character heights and types and pictograms in accordance with TSRGD.</p> <p>A number of text messages and pictograms can be stored in the VMS's memory.</p> <p>The user can create their own messages, fonts or pictograms.</p> <p>It is possible to alternate 2 or more messages and pictograms using programmable intervals.</p> |
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Disclaimer: All Information contained in this document is up-to-date and correct at the date of issue. E&OE. Issue no: 2 - 22.3.22

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