



GENERAL TECHNICAL SPECIFICATIONS

Graphics	Standard UK legends and symbols
Colours	Red, amber, white, green
Central Matrix White LED Display	32 x 32 pixels @ 20mm centres
Red Ring display	1200 mm internal diameter, 1300 mm external diameter
Red 'X' Display	16 x 16 pixels @ 40 mm centres
Green Arrow Display	16 x 16 pixels @ 40 mm centres
LED display angle (when AMI fitted at correct mounting angle)	+2.5° up 5° each side -5° down
Luminous Intensity	White >12,400 cd/m ² Green > 3,720 cd/m ² Red > 3,100 cd/m ²
Brightness levels	16 by external control
Environment class	IP56
Temperature range	-20°C to +60°C
Enclosure	Fully welded aluminium
Dimensions	1480 mm high x 1840 mm wide x 300 mm deep
Weight	100 Kg
Conformity	Highways Agency specification MCE107 European Standard EN 12966 and TR2516B
Communication	RS485 standard, others available
Communications protocol	UK Highways Agency NMCS2
Operating Voltage	180 - 260 V 50/60 Hz
Maximum power	200 Watt maximum operating load

FEATURES AND BENEFITS

- Advanced sign design offers flexible multi-colour display of standard legends and symbols
- Clarity of display ensured by fully configurable central graphics matrix, with integral LED-fault 'fallback' display capability
- Optical feedback ensures 'enforceable' display verification. Confirmatory output signal available for Control Centre use
- Associated roadside controller unit and cable marshalling unit for multi-land installations
- Aluminium enclosure, fully welded with internal strength and support members
- Mounting suitable for cantilevers, posts, or overhead gantries
- Uses RIGEL high intensity LED technology with exceptionally long life MTBF
- Upper and lower red and amber flashing lanterns also use long-life RIGEL LEDs
- Environmental protection to IP56. Operating temperature range -20°C to +60°C
- No secondary glazing that would reduce brightness or cause reflections, enclosure is perforated for individual LED lenses
- Optical performance conforms to European Standard EN 12966
- Visibility of display >500 m
- Contrast ratio better than 10:1 over full ambient light level range
- External input control of brightness over 16 levels. Coordinating ambient light monitor unit available
- Display angle +2.5°/ -5° vertical, 5° horizontal
- Communications: UK NMCS2 Protocol over RS485 bus, with GSM, GPRS, TCP-IP, modem, or Internet options available via the associated Roadside Controller
- Output confirmation of symbol displayed for activation of external speed monitoring camera system
- Customised solutions to meet bespoke specification and particular requirements, design, product conception, on-site installation and testing.



Variable Message Signs Monkton Business Park, Mill Lane, Hebburn, Tyne & Wear, NE31 2JZ, UK
 T: +44 (0)191 423 7070 F: +44 (0)191 423 7071 E: sales@vmstech.co.uk W: www.vmstech.co.uk





The AMI has been developed to meet the ever-changing needs of traffic authorities whilst fulfilling the expectations of the motorist

The AMI (Advanced Motorway Indicator) from Variable Message Signs, has been designed to meet the requirements of Highways Agency Specification MCE0197 and EU Specification EN 12966, and offers Positive Optical Feedback enabling legal enforcement.

- Flexible multicolour display; red, amber, green, white
- Controlled motorway applications allowing variable speed limits
- Optical feedback for legal enforcement
- RIGEL LED technology
- Performance to European specification EN 12966

Applications include:

- Variable Speed Limit Signs
- Lane Control Indicators
- Dynamic Lane Control Unit
- Lane Control Signal
- Controlled Motorway Indicator

Model	Mounting style	Red Ring Display	White Central Matrix Display	Red 'X' Display	Green Arrow Display	215mm flashing lanterns	Enforcement features fitted
AMI 450	Post or gantry	✓	✓	✓	✗	Dual colour, red and amber	✗
AMI 450EE	Post or gantry	✓	✓	✓	✗	Dual colour, red and amber	✓
AMI 460	Post or gantry	✓	✓	✓	✓	Dual colour, red and amber	✗
AMI 460EE	Post or gantry	✓	✓	✓	✓	Dual colour, red and amber	✓