

**MAKING THE  
MESSAGE  
CLEAR**

# AMI

ADVANCED MOTORWAY INDICATOR



The **AMI** (Advanced Motorway Indicator) from Variable Message Signs Limited, has been developed to meet the ever-changing needs of traffic authorities whilst fulfilling the expectations of the motorist. Designed to meet the requirements of Highways Agency Specification MCE0197 and EU Specification EN 12966, the AMI offers Positive Optical Feedback enabling legal enforcement.



#### APPLICATIONS INCLUDE:

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

#### VARIANTS AVAILABLE

Model	Mounting Style	Red Ring Display	White Central Matrix Display	Red 'X' Display	Green Arrow Display	125mm Flashing Lanterns	Enforcement features fitted
AMI 450	Post or Gantry	✓	✓	✓	✗	Dual Colour Red & Amber	✗
AMI 450EE	Post or Gantry	✓	✓	✓	✗	Dual Colour Red & Amber	✓
AMI 460	Post or Gantry	✓	✓	✓	✓	Dual Colour Red & Amber	✗
AMI 460EE	Post or Gantry	✓	✓	✓	✓	Dual Colour Red & Amber	✓

Please contact Variable Message Signs Limited if the choice of features available does not meet your specific needs.

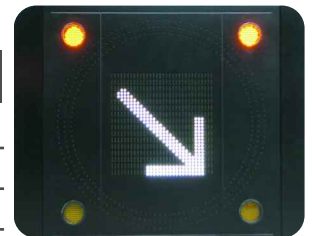
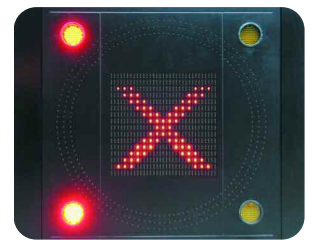


- Flexible multicolour display; red, amber, green, white
- Controlled motorway applications allowing variable speed limits
- Optical feedback for legal enforcement
- RIGEL LED technology
- Performance to European specification EN 12966



## 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.



## GENERAL TECHNICAL SPECIFICATIONS

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



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