

# VARIABLE MESSAGE SIGNS

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## HIGHWAY APPROVED



UTILISE THE  
LATEST SMD LED  
TECHNOLOGY  
TO PROVIDE  
THE ULTIMATE  
FLEXIBILITY  
AND EFFICIENCY  
FOR TRAFFIC  
MANAGEMENT

Messagemaker Displays use the latest SMD LED technology to create the highest quality VMS (Variable Message Sign).

These flexible signs can be used on motorways to display road information, speed limits and directions.

Utilising the latest LED technology, supported by our engineering expertise, Messagemaker Displays has built up an enviable reputation supplying custom made displays, which are currently in operation in the UK, Europe and the rest of the world.

### APPLICATIONS

- ▶ Variable Speed Limit Signs
- ▶ Dynamic Message Signs
- ▶ Lane Control Indicators

### KEY FEATURES

- ▶ EN12966 Certified.  
*(European Standard for Variable Message Traffic Signs)*
- ▶ Weather and tamper resistant aluminium enclosure
- ▶ Delivers real-time traffic information to road users.
- ▶ Controlled and monitored by Highways Agent NMC2 with the use of RS485 or an Ethernet interface with GSM, Radio, TCP-IP or a modem.
- ▶ Capability to display 2 or 3 lines of text in a variety of character sizes (*MS3 Model*) or a full matrix display (*MS4 Model*).
- ▶ MS3 Signs displaying 400mm character heights are built with an Enhanced Matrix Indicator (EMI) to display messages along with speed limits.

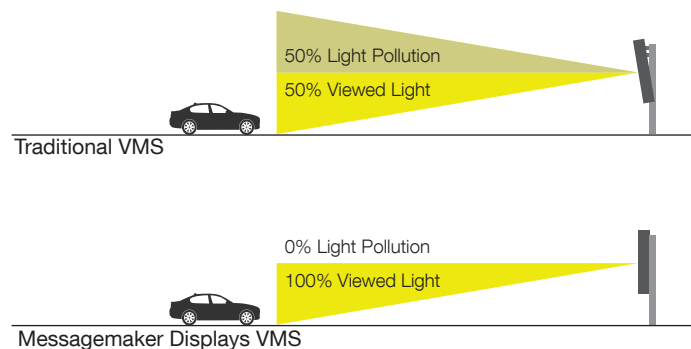
# HIGHWAY APPROVED VARIABLE MESSAGE SIGNS

All our VMS signs benefit from the use of smart optical lenses and SMD LEDs. This technology enables better control of the light emitted from the signs.

The light emitted from the SMD LED's targets the required areas.

This efficient technology can significantly lower power consumption, create less light pollution, and improve driver legibility with an excellent contrast ratio.

The design of Messagemaker Displays' VMS signs make it possible for a vertical installation. This ensures a better aesthetic, more stable structure and also creates an easier installation.



MS3



SMD LED



MS4

Sign Type	Display Colour	Lines / Character per line	Character Height (HxW pixels)	EMI Display Area (HxW pixels)	Enclosure Size (HxW mm)	Enclosure Material	IP Rating	Interface	Power	Standard
MS3	Amber	2 / 12	320	N/A	1755 x 4410	Aluminium	IP65	RS495 Ethernet	230V 50/60 Hz	EN12966
		2 / 16	400	14 x 20 *	2190 x 7200					
		3 x 18		14 x 20 **	2600 x 8000					

\* Reduced to 2 lines of 12 characters per line, when EMI is used

\*\* Reduced to 3 lines of 12 characters per line, when EMI is used

Sign Type	Pitch Size	Display Colour	Resolution (HxW pixels)	Enclosure Size (HxW mm)	Enclosure Material	IP Rating	Interface	Communication	Power	Standard
MS4	20	Single or Full Colour	128 x 192	3160 x 4440	Aluminium	IP65	RS485 Ethernet RS232	UK Highway Agency NMCS2 NTCIP Modbus	230V 50/60 Hz	EN12966
			64 x 192	1752 x 4440						
			96 x 64	2500 x 1810						