

TUNNELS & BRIDGES



TRAFFIC CONTROL

Tunnels and bridges are essential parts of the strategic road network, requiring effective management systems to ensure free-flowing traffic and safety at all times

Variable Message Signs has considerable experience in developing and providing specialist signs for tunnel and bridge applications and duties, built on the back of over 25 years' experience of developing information systems for the UK highways network.



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Tunnel Projects	
London Heathrow	2005 - present
Johnstones Hill (New Zealand)	2008
Hatfield	2009
Rotherhithe	2009
Tyne Tunnel	2009
Hindhead	2010
Blackwall	2010
TT2 (Tyne Tunnel 2)	2011-12
Ferry Projects	
Strangford Lough (Northern Ireland)	2005
Fishguard (Wales), Wexford, (Ireland)	2006 - 07
Foyle Ferry (Northern Ireland)	2007 - 08
Bridge Projects	
Forth Bridge (Scotland)	1988 - 93
Second Severn Crossing	1990 - 92
Tay Road Bridge (Scotland)	1998 - present
Humber Bridge	2000
Queen Elizabeth II, Dartford	2001 - present
Sydney Harbour (Australia)	2002
Orwell Bridge	2004
Foyle Bridge (Northern Ireland)	2005 - present
Cleddau Bridge (Wales)	2006 - 07
Auckland Harbour (New Zealand)	2007



Lane Control Signs

Lane Control signs are LED (light emitting diode) matrix signs that display either a downward pointing green arrow or a red cross. Available in single or dual-faced versions, the display matrix is 13 pixels high x 11 pixels wide with a 50mm pixel pitch in a sign 750mm x 750mm x 200mm. Optical performance meets TR2516B and BS EN 12966.



Speed Limit Repeater Signs

These signs are installed along both sides of a tunnel bore. They display a speed limit value inside a red roundel, or can display the national speed limit symbol. To accommodate contra-flow traffic the sign has a retro-reflective speed limit symbol on the rear of the sign enclosure. Optical performance meets TR2516B and BS EN 12966.



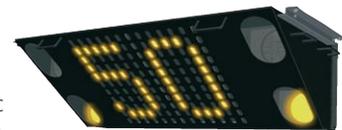
Tunnel Message Sign

VMS Ltd manufacture a range of 2 x 12 discrete character LED signs for general Tunnel Message Sign applications. Character sizes of 100mm, 160mm, and 240mm can be supplied with or without flashing amber lanterns. Signs can be mounted back-to-back for contra-flow operations.



Bespoke Design

Bespoke designs can be produced to meet the requirements of a specific problem. For example, a low profile message sign has been developed or use in tunnels where headroom is restricted. This sign has a tri-colour matrix display 13 pixels wide by 11 pixels high, and is also fitted with dual-colour lanterns.



Similar Applications

Variable Message Signs has also supplied systems for Bridge Management and Ferry applications, please ask for details.

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