



Variable message signs

Part 2: Portable signs



AS 4852.2:2019

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- Australian Industry Group
- CIE Australia
- Department of Planning, Transport and Infrastructure (SA)
- Department of Transport and Main Roads (QLD)
- Hire and Rental Industry Association of Australia
- Intelligent Transport Systems Australia
- Main Roads Western Australia
- Roads and Maritime Services
- Traffic Management and Safety — Roads ACT
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Preface

This Standard was prepared by the Standards Australia Committee LG-006, Road Traffic Signals, to supersede AS 4852.2—2009, *Variable message signs, Part 2: Portable signs*.

The objective of this Standard is to specify the requirements for the design and performance of variable message portable signs.

The AS 4852 series covers requirements for the construction and performance of electrically powered variable message signs based on light-emitting diode technologies in a matrix configuration that are intended to be used for road traffic management. These signs are expected to provide real-time information on the oncoming road in the transportation network. The series consists of two standards:

AS 4852.1, *Variable message signs, Part 1: Fixed signs*

AS 4852.2, *Variable message signs, Part 2: Portable signs*

The major changes in this edition are as follows:

- (a) Options for increased resolutions.
- (b) Changes to methods of specifying text dimensions.
- (c) Dimming level values aligned with sign illuminance.
- (d) Upwards light not required.
- (e) Dimming step duration changed to 5–15 s.
- (f) Local control port may also be RS485 or Ethernet.
- (g) Alarm and Event logs to be readable via Product Host Control system.
- (h) Sign only required to be provided with standard size font sets 1 and 2.
- (i) For the pixel element service life, luminance degradation below the minimum tabled values is not permitted.

The use of any signs, including variable message signs, for road traffic management is subject to regulation by traffic control authorities. Guidance on and requirements relating to their use are provided in the AS 1742 series.

The terms “normative” and “informative” are used in Standards to define the application of the appendix to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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Section 1 Scope and general

1.1 Scope

This Standard covers electrically powered, on-road, variable message signs (VMS) used for traffic management and/or driver information applications. Part 1 of this series covers fixed signs, where the display is mounted in a permanent position above or adjacent to the roadway. Part 2 of this series covers portable signs, where the display is mounted and deployed on a re-locatable trailer.

This Standard specifies the requirements for the design, construction, performance and certain aspects of the installation of electrically powered variable message signs, including their associated control systems.

The following types of message signs are not covered in this Standard:

- (a) Passenger information signs at bus stops, train stations etc.
- (b) Portable variable message signs intended to advertise products and services to road users.
- (c) Portable signs that are only capable of displaying either a single message or a blank face.

1.2 Application

Variable message signs conforming to this Standard shall be used to provide traffic-related information to motorists, cyclists and pedestrians. This includes road safety messages and real-time traffic information relating to incidents, roadworks and travel times.

1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

AS 1742.1, *Manual of uniform traffic control devices, Part 1: General introduction and index of signs*

AS 1743, *Road signs—Specifications*

AS 1744, *Forms of letters and numerals for road signs (known as Standard alphabets for road signs)*

AS 4009, *Software reviews and audits*

AS 4047, *Software configuration management plans*

AS 4048, *Software configuration management*

AS 60529, *Degrees of protection provided by enclosures (IP Code)*

AS/NZS 4509.1, *Stand-alone power systems, Part 1: Safety and installation*

AS/NZS 4509.2, *Stand-alone power systems, Part 2: System design*

AS/NZS 1170.2, *Structural design actions, Part 2: Wind actions*

AS/NZS 61000.6.1, *Electromagnetic compatibility (EMC), Part 6.1: Generic standards — Immunity for residential, commercial and light-industrial environments*