Australian Standard®

Variable message signs

Part 1: Fixed signs



This Australian Standard® was prepared by Committee LG-006, Road traffic signals. It was approved on behalf of the Council of Standards Australia on 10 March 2009. This Standard was published on 10 April 2009.

The following are represented on Committee LG-006:

- ARRB Group
- Australian Industry Group
- AUSTROADS
- Brisbane City Council
- CIE Australia Inc.
- Department for Transport, Energy and Infrastructure, South Australia
- Hire and Rental Industry Association of Australia
- IES: The Lighting Society
- Lighting Council of Australia
- Main Roads Department, Queensland
- Roads and Traffic Authority of New South Wales
- VicRoads

This Standard was issued in draft form for comment as DR 07369.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting **www.standards.org.au**

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at **mail@standards.org.au**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 4852.1—2009

Australian Standard®

Variable message signs

Part 1: Fixed signs

First published as AS 4852.1—2009.

COPYRIGHT

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia ISBN 0 7337 9120 4

PREFACE

This Standard was prepared by the Standards Australia Committee LG-006 on Road Traffic Signals.

This Standard forms Part 1 of the AS 4852 series, which covers requirements for the construction and performance of electrically powered variable message signs intended for use in road traffic management.

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

The series consists of the following Standards:

AS

4852 Variable message signs

4852.1 Part 1: Fixed signs (this Standard)

4852.2 Part 2: Portable signs

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 series of Standards AS 1742, *Manual on uniform traffic control devices*.

Statements expressed in mandatory terms in notes (footnotes) to tables (figures) are deemed to be requirements of this Standard.

The terms 'normative' and 'informative' have been used in this Standard 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.

CONTENTS

| | | Page |
|---------|---|------|
| SECTION | ON 1 SCOPE AND GENERAL | |
| 1.1 | SCOPE | 4 |
| 1.2 | APPLICATION | |
| 1.3 | REFERENCED DOCUMENTS | |
| 1.4 | DEFINITIONS | |
| | | |
| | ON 2 GENERAL DESIGN AND ARRANGEMENT | _ |
| 2.1 | MECHANICAL REQUIREMENTS | |
| 2.2 | ELECTRICAL REQUIREMENTS | |
| 2.3 | COMMUNICATIONS EQUIPMENT | |
| 2.4 | REAL-TIME CLOCK | |
| 2.5 | MARKINGS AND LABELS | 14 |
| SECTION | ON 3 DISPLAY AND OPTICAL REQUIREMENTS | |
| 3.1 | DISPLAY REQUIREMENTS | 15 |
| 3.2 | OPTICAL REQUIREMENTS | |
| CECTIO | ON 4 OPERATION AND CONTROL | |
| 4.1 | GENERALGENERAL | 26 |
| | LOCAL CONTROL | |
| 4.2 | | |
| 4.3 | REMOTE CONTROL | |
| 4.4 | PROGRAMMING | |
| 4.5 | COMMUNICATIONS PROTOCOL | |
| 4.6 | MONITORING, FAULT LOGGING AND REPORTING | |
| 4.7 | FALL-BACK SYSTEM | |
| 4.8 | SOFTWARE DEVELOPMENT | |
| 4.9 | OPERATIONS AND MAINTENANCE MANUAL | 30 |
| SECTIO | ON 5 ENVIRONMENTAL REQUIREMENTS | |
| 5.1 | TEMPERATURE AND HUMIDITY | 32 |
| 5.2 | ENCLOSURE PROTECTION | 32 |
| 5.3 | WIND LOADING | 32 |
| 5.4 | ELECTROMAGNETIC COMPATIBILITY (EMC) | 32 |
| APPEN | IDICES | |
| AFFEN | SIGN CLEARANCES AND ACCESS | 22 |
| A B | CHARACTER FONTS | |
| C | PHOTOMETRIC TEST PROCEDURES | |
| D | COLORIMETRIC TEST PROCEDURES | |
| E | WIRELESS COMMUNICATIONS | |
| | | |



| | This is a free preview. | Purchase the e | entire publication | at the link below: |
|--|-------------------------|----------------|--------------------|--------------------|
|--|-------------------------|----------------|--------------------|--------------------|

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation