AS 5156—2010

Australian Standard®

Electronic speed limit 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 15 October 2010.
This Standard was published on 3 December 2010.

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, SA
- Department of Transport and Main Roads, Qld
- IES: The Lighting Society
- Lighting Council of Australia
- Main Roads, WA
- Roads and Traffic Authority of NSW
- VicRoads

This Standard was issued in draft form for comment as DR AS 5156.

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Standards may also be withdrawn.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.

Australian Standard®

Electronic speed limit signs

First published as AS 5156—2010.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 0 7337 9736 1

PREFACE

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

The objective of this Standard is to specify requirements for the design, construction and performance of electronic speed limit signs (ESLS) intended for use in road traffic management.

The use of any signs, including electronic speed limit signs, for road traffic management is subject to regulation by traffic control authorities. Guidance and requirements on their use is provided in the series of Standards AS 1742, *Manual of uniform traffic control devices* and relevant Austroads guidelines.

This Standard has been developed with reference to Austroads *Best practice for variable speed limits: Best practice recommendations*.

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 for information and guidance only.

CONTENTS

Page

STANDARDS AUSTRALIA

Australian Standard
Electronic speed limit signs

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard covers electronic speed limit signs composed of discrete light-emitting elements intended to be permanently mounted or portable, adjacent to or over roadways, for the primary purpose of communicating speed restrictions to approaching road users. It specifies requirements for the design, construction, performance and certain aspects of the installation of electronic speed limit signs, including their associated control systems.

NOTE: In order to allow for future developments in technology and sign design, this Standard defines performance requirements that are not dependent on technology and whose optical performance may be determined using a test module.

1.2 APPLICATION

It is intended that electronic speed limit signs complying with this Standard be primarily used to provide regulatory control of traffic speed to road users. This includes school speed zones, shopping centre speed zones, roadwork speed zones and freeway speed limit systems. The speed signs may also be used to display auxiliary messages as shown in this Standard.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1742	Manual of uniform traffic control devices
1743	Road signs—Specifications
1744	Forms of letters and numerals for road signs (known as Standard alphabets for road signs)
2700	Colour Standards for general purposes
4006	Software test documentation
4009	Software reviews and audits
4042	Software configuration management plans
4043	Software configuration management
4086	Secondary batteries for use with stand-alone power systems
4086.1	Part 1: General requirements
4086.2	Part 2: Installation and maintenance
4509	Stand-alone power systems
4509.2	Part 2: System design guidelines
60068.2.29	Environmental testing—Tests—Test Eb and guidance: Bump
60529	Degrees of protection provided by enclosures (IP Code)

