



Portable traffic signal systems



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 - Austroads
 - Brisbane City Council
 - CIE Australia
 - Department of Planning, Transport and Infrastructure, SA
 - Department of Transport and Main Roads, Qld
 - Hire and Rental Car Industry Association of Australia
 - IES: The Lighting Society
 - Intelligent Transport Systems Australia
 - Main Roads Western Australia
 - Roads and Maritime Services
 - Traffic Management and Safety – Roads ACT
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-

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Australian Standard[®]

Portable traffic signal systems

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PREFACE

This Standard was prepared by the Standards Australia Committee LG-006, Road Traffic Signals, to supersede AS 4191—1994, *Portable traffic signal systems*. It is one of a number of Standards which set out requirements for the equipment associated with traffic signal installations.

The objective of this Standard is to provide designers and manufacturers of portable traffic signals with requirements to ensure that such signals operate safely and reliably.

Attention is drawn to the fact that the use of portable traffic signals is subject to regulation by traffic control authorities. Guidance on their use is provided in AS 1742.3, *Manual of uniform traffic control devices*, Part 3: *Traffic control for works on roads*.

The principal differences between this and the previous edition are as follows:

- (a) The Standard has been revised to reflect the change in technology from incandescent to LED lighting.
- (b) Signal timing and sequencing information has been included.
- (c) Requirements for the use of solar power for battery recharging purposes have been added.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard

Portable traffic signal systems

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the design, construction and performance of three-colour portable traffic signal systems for use where temporary control of vehicular traffic is required, such as at roadworks or bridge works. It provides for two main forms of control, viz. shuttle control and plant-crossing control, using systems comprising one master and one slave.

The Standard does not cover the use of portable traffic signal systems in specific road situations; this is normally the subject of regulation by the relevant traffic authority.

NOTES:

- 1 See Appendix A for the information that should be supplied with an enquiry or order for portable traffic signal systems to the requirements of this Standard.
- 2 Information on the basic system elements and configurations of portable traffic signals is given in Appendix B.
- 3 Guidance on the use of portable traffic signal systems is provided in AS 1742.3.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1742	Manual of uniform traffic control devices
1742.3	Part 3: Traffic control for works on roads
2144	Traffic signal lanterns
3731	Stationary batteries—Nickel-cadmium
3731.2	Part 2: Valve-regulated type
4177	Caravan and light trailer towing components
4177.5	Part 5: Electrical connectors
60529	Degrees of protection provided by enclosures (IP Code)
AS/NZS	
1170	Structural design actions
1170.2	Part 2: Wind actions
3000	Electrical installations (known as the Australian/New Zealand Wiring Rules)
3001	Electrical installations—Transportable structures and vehicles including their site supplies
3100	Approval and test specification—General requirements for electrical equipment
4029	Stationary batteries—Lead-acid
4029.2	Part 2: Valve-regulated type (IEC 60896-2:1995, MOD)