

Australian Standard™

Safety of machinery

**Part 1902: Displays, controls, actuators
and signals—Ergonomic requirements
for the design of displays and control
actuators—Displays**



This Australian Standard was prepared by Committee SF-041, General Principles for the Guarding of Machinery. It was approved on behalf of the Council of Standards Australia on 21 April 2006.
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The following are represented on Committee SF-041:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Department for Administration and Information Services, SA
Department of Consumer and Employment Protection, WorkSafe Division, WA
Department of Primary Industries, Mine Safety, NSW
Engineers Australia
Federal Chamber of Automotive Industries
Human Factors and Ergonomics Society of Australia
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PREFACE

This Standard was prepared by the Standards Australia Committee SF-041, as a revision, in part, of AS 4024.1—1996, *Safeguarding of machinery, Part 1: General principles*.

During its work, the Committee considered a number of Standards originating within the European Community in the field of safety of machinery. Many of these European Standards are being adopted virtually unchanged as International Standards by the International Organization for Standardization (ISO) and the committee has agreed to continue to use material emanating from both CEN and ISO in this new edition. This action will maintain consistency with previous editions of AS 4024.1 and other machine-specific Australian Standards.

This edition has been published as a series of Parts rather than the single Standard previously published as AS 4024.1. In doing this, the committee has cleared the way for simple revisions in the future. When a new edition of a relevant Standard becomes available at the international level, it will be adopted and published within the framework of AS 4024 with a minimum delay, so ensuring continued international alignment.

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 Safety of machinery

Part 1902: Displays, controls, actuators and signals—Ergonomic requirements for the design of displays and control actuators—Displays

1 SCOPE

This Standard provides guidance on the selection, design and location of displays to avoid potential ergonomic hazards associated with their use. It specifies ergonomics requirements and deals with visual, audible and tactile displays.

This Standard is applicable to displays used in machinery (e.g. devices and installations, control panels, operating and monitoring consoles) for occupational and private use. This Standard is not applicable to ergonomics requirements for visual display terminals (VDTs) used for office tasks. These requirements are given in ISO 9241.

2 OBJECTIVE

The objective of this Standard is to enable designers, manufacturers, suppliers, employers and users of machinery to minimize risks to the health and safety of employees and others working with or otherwise near machinery by providing design requirements for displays.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

1680 Interior lighting

1680.2.4 Part 2.4: Industrial tasks and processes

4024 Safety of machinery

4024.1904 Part 1904: Displays, controls, actuators and signals—Indication, marking and actuation—Requirements for visual, auditory and tactile signals

4024.1905 Part 1905: Displays, controls, actuators and signals—Indication, marking and actuation—Requirements for marking

ISO

7731 Ergonomics—Danger signals for public and work areas—Auditory danger signals

9241 Ergonomic requirements for office work with visual display terminals (VDTs)

4 DEFINITIONS

For the purposes of this Standard the definitions below apply:

4.1 Alphanumeric display

Display in which the information is shown as a combination of digits and letters.