



Share your feedback
about this Standard.
Scan the QR code on your
phone or click/ enter the
link to take the survey

feedback.standards.org.au/4024.1904:2014

AS/NZS 4024.1904:2014
IEC 61310-1, Ed. 2.0 (2007)

AS/NZS 4024.1904:2014

Australian/New Zealand Standard™

Safety of machinery

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



AS/NZS 4024.1904:2014

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-041, General Principles for the Guarding of Machinery. It was approved on behalf of the Council of Standards Australia on 5 June 2014 and on behalf of the Council of Standards New Zealand on 24 April 2014. This Standard was published on 30 June 2014.

The following are represented on Committee SF-041:

Australian Chamber of Commerce and Industry
Australian Industry Group
Australian Manufacturing Workers Union
Department of Mines and Petroleum, WA
Department of the Premier and Cabinet, SA
Engineers Australia
Federal Chamber of Automotive Industries
Human Factors and Ergonomics Society of Australia
Institute of Instrumentation, Control and Automation
National Safety Council of Australia
New Zealand Electrical Institute
NSW Department of Trade and Investment, Regional Infrastructure and Services
Safety Institute of Australia
University of Melbourne
Winery Engineering Association
WorkCover New South Wales
WorkSafe NZ
WorkSafe Victoria

Keeping Standards up-to-date

Standards are living documents which 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 Standards may also be withdrawn.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 which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia Web Site at www.standards.org.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR AS/NZS 4024.1904.

AS/NZS 4024.1904:2014

Australian/New Zealand Standard™

Safety of machinery

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

Originated in Australia as part of AS 4024.1(Int)—1992.
Previous edition AS 4024.1904—2006.
Jointly revised and designated as AS/NZS 4024.1904:2014.

COPYRIGHT

© Standards Australia Limited/Standards New Zealand

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, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

ISBN 978 1 74342 750 7

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-041, General Principles for the Guarding of Machinery, to supersede AS 4024.1904—2006.

It is emphasized that this Standard is part of the AS/(NZS) 4024.1 series and it is imperative that it is used in conjunction with other applicable parts of the series. A complete listing of all current parts of the AS/(NZS) 4024.1 series can be found at the Standards Australia website <www.standards.org.au> and in AS/NZS 4024.1100, *Safety of machinery*, Part 1100: *Application Guide*.

The objective of this Standard is to specify the requirements for visual, acoustic and tactile methods of indicating safety-related information, at the human-machine interface and to exposed persons.

It specifies a system of colours, safety signs, markings and other warnings intended for use in the indication of hazardous situations and health hazards and for meeting certain emergencies. It also specifies ways of coding visual, acoustic and tactile signals for indicators and actuators to facilitate the safe use and monitoring of the machinery.

This Standard is identical with, and has been reproduced from IEC 61310-1, Ed. 2.0 (2007), *Safety of machinery—Indication, marking and actuation*, Part 1: *Requirements for visual, acoustic and tactile signals*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) In the source text ‘this part of IEC 61310’ should read ‘this Australian/New Zealand Standard’.
- (b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
13850	Safety of machinery—Emergency stop—Principles for design	4024	Safety of machinery
		4024.1604	Part 1604: Design of controls, interlocks and guarding—Emergency stop—Principles for design
IEC		AS	
60204	Safety of machinery—Electrical equipment of machines	60204	Safety of machinery—Electrical equipment of machines
60204-1	Part 1: General requirements	60204.1	Part 1: General requirements (IEC 60204-1, Ed. 5 (FDIS) MOD)

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

CONTENTS

1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Presentation of safety-related information	8
4.1	General	8
4.2	Visual signals	10
4.3	Acoustic signals	12
4.4	Tactile signals	13
5	Information coding	13
5.1	General	13
5.2	Coding of visual signals	13
5.3	Coding of acoustic signals	14
5.4	Coding of tactile signals	15
	Annex A (informative) Graphical symbols related to the operation of actuators	17
	Bibliography	21
	Figure 1 – Open-loop control, action and information systems	4
	Figure 2 – Zones of vertical field of vision	11
	Figure 3 – Zones of horizontal field of vision	11
	Figure 4 – Examples of shapes that can be discriminated by touch alone	16
	Table 1 – Examples of signals	10
	Table 2 – Meaning of colours for coding – General principles	14
	Table 3 – Coding by supplementary means to colour (visual codes)	14
	Table 4 – Acoustic signals	15
	Table 5 – Means of coding (acoustic codes)	15
	Table 6 – Means of coding (tactile codes)	16
	Table A.1 – Graphical symbols related to the operation of actuators	17

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

[Product Page](#)

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