AS/NZS 1102.113:1995
IEC 617-13:1993

Australian/New Zealand Standard

Graphical symbols for electrotechnology

Part 113: Analogue elements

[IEC title: Graphical symbols for diagrams,
Part 13: Analogue elements]

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Graphical symbols for electrotechnology

Part 113: Analogue elements

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE/13 on Symbols, Units and Quantities for Electrotechnology. It is issued as a Joint Standard.

The objective of this Standard is to provide users of electrotechnical documents with graphical symbols for analogue elements to obtain consistent presentation and meaning in diagrams.

This Standard is identical with and has been reproduced from IEC 617-13:1993, *Graphical symbols for diagrams*, Part 13: *Analogue elements.*

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

(a) The international Standard number does not appear on each page of text and its identity is shown only on the cover and title page.

(b) In the source text, 'this International Standard' should read 'this Australian/New Zealand Standard'.

(c) A full point substitutes for a comma when referring to a decimal marker.

The symbol numbers in this Standard have retained the IEC 617-13 numbers. In AS 1102, *Graphical symbols for electrotechnology*, Part 101: *General information and general index*, the symbol numbers have '113' as the first part of the symbol number instead of '13'. References in this Standard to symbols in which the first part of the symbol number is '01' to '10' should be substituted by '101' to '110' respectively.

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

Reference to International Standard		*Australian or Australian/New Zealand Standard*	
IEC		AS	
27-1	Letter symbols to be used in electrical technology, Part 1: General	1046	Letter symbols for use in electrotechnology
		1046.1	Part 1: General
617-2	Graphical symbols for diagrams, Part 2: Symbol elements, qualifying symbols and other symbols having general application	1102	Graphical symbols for electrotechnology
		1102.102	Part 102: Symbol elements, qualifying symbols and other symbols having general application
617-3	Graphical symbols for diagrams, Part 3: Conductors and connecting devices	1102.103	Part 103: Conductors and connecting devices
617-5	Graphical symbols for diagrams, Part 5: Semiconductors and electron tubes	1102.105	Part 105: Semiconductors and electron tubes
617-10	Graphical symbols for diagrams Part 10: Telecommunications: Transmission	1102.110	Part 110: Telecommunications — transmission
		AS/NZS	
617-12	Graphical symbols for diagrams, Part 12: Binary logic elements	02.112	Part 112: Binary logic elements.

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AUSTRALIAN/NEW ZEALAND STANDARD

Graphical symbols for electrotechnology

Part 113: Analogue elements

1 Scope

This part of IEC 617 contains graphical symbols that have been developed to represent functions operating on and/or producing analogue quantities. They are intended also to represent physical devices or combinations of physical devices capable of carrying out these functions.

The symbols have been prepared with a view to electrical applications, but many can also be applied to non-electrical devices, for example pneumatic, hydraulic or mechanical.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 617. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 617 are encouraged to investigate the possibility of applying the most recent editions of the normative documents listed below. Members of IEC and ISO maintain registers of currently valid normative documents.

IEC 27-1: 1992, *Letter symbols to be used in electrical technology—Part 1: General*

IEC 617-2: 1983, *Graphical symbols for diagrams—Part 2: Symbol elements, qualifying symbols and other symbols having general application*

IEC 617-3: 1983, *Graphical symbols for diagrams—Part 3: Conductors and connecting devices*

IEC 617-5: 1983, *Graphical symbols for diagrams—Part 5: Semiconductors and electron tubes*

IEC 617-10: 1983, *Graphical symbols for diagrams—Part 10: Telecommunications: Transmission*

IEC 617-12: 1991, *Graphical symbols for diagrams—Part 12: Binary logic elements*

3 General notes

3.1 Construction and combination of outlines, labels and dependency notation should follow the applicable general rules of IEC 617-12 with the understanding that analogue connections carry a continuous range of signal levels rather than two logic states. Provided the direction of signal flow is clear or properly indicated, inputs may be shown on the right and outputs may be shown on the left if it aids layout of the diagram or better conveys the structure of the device.

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