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Australian Standard®

Graphical symbols for electrotechnical documentation

Part 102: Symbol elements, qualifying symbols and other symbols having general application





This Australian Standard was prepared by Committee TE/13, Symbols, Units and Quantities for Electrotechnology. It was approved on behalf of the Council of Standards Australia on 27 March 1989 and published on 19 June 1989.

The following interests are represented on Committee TE/13:

Association of Consulting Engineers, Australia

Australian Electrical and Electronic Manufacturers Association

Civil Aviation Authority

Confederation of Australian Industry

Department of Administrative Services-Construction Group

Department of Defence

Department of Technical and Further Education, N.S.W., Vic. and S.A.

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For history before 1989 see Preface. AS 1102.102 first published 1989.

PREFACE

This Standard was prepared by the Standards Australia Committee on Symbols, Units and Quantities for Electrotechnology under the Authority of both the Telecommunications and Electronics Standards Board and the Electrical Standards Board.

THE 'NEW' AS 1102 SERIES

This Standard is one part of a major revision of the AS 1102 series, all 15 parts of which have or are currently being revised and consolidated so that the series is aligned with the 13-part IEC 617 series, *Graphical Symbols for Diagrams*.

The Committee decided upon this alignment rather than continue with the development of an Australian series based on but not aligned with IEC 617. Such a course would eventually have proved counter-productive since the IEC 617 series has already gained wide national and international acceptance.

Since the generic AS number for the series (AS 1102) is so well established throughout industry and technical colleges as *the* Australian Standard for electrotechnical graphical symbols, it was felt appropriate that it be retained. However, to clearly identify the revised Standards, three-digit part numbers have been employed (e.g. AS 1102.106) and in this Preface these revised Standards are referred to as the 'new' AS 1102 series.

The Standards of the 'new' AS 1102 series are derived as follows:

- (a) Eleven parts of the 'old' AS 1102 series (i.e. Parts 1 to 7, 10, 11, 13 and 14) are now consolidated and aligned with the first 10 parts of IEC 617 and thus become AS 1102.101 to AS 1102.110. These are published simultaneously.
- (b) Of the outstanding balance of parts of the 'old' AS 1102 series (i.e. Parts 8, 9, 12 and 15), these will all be revised and aligned in due course as follows:
 - (i) Part 8—1986, Symbols for location diagrams. This part will become AS 1102.111.
 - (ii) Part 9—1986, Binary logic elements. This part is already substantially in alignment with IEC 617-12 (1983) and will become AS 1102.112.
 - (iii) Part 12—1984, *Electric traction*. This part is wholly of Australian origin and it does not correspond with any IEC Standard. However, when it is revised it will be redesignated with a 3-digit part number. For the meantime it retains its 2-digit part number, i.e. Part 12.
 - (iv) Part 15—1982, Analogue elements. This part is already substantially in alignment with IEC 617-13 (1978) and will become AS 1102.113.

The following are the parts of the 'new' AS 1102 series that are published simultaneously:

AS 1102	Graphical symbols for electrotechnical documentation
AS 1102.101	General information and general index
AS 1102.102	Symbol elements, qualifying symbols and other symbols having general application
AS 1102.103	Conductors and connecting devices
AS 1102.104	Passive components
AS 1102.105	Semiconductors and electron tubes
AS 1102.106	Production and conversion of electrical energy
AS 1102.107	Switchgear, controlgear and protective devices
AS 1102.108	Measuring instruments, lamps and signalling devices
AS 1102.109	Telecommunications: Switching and peripheral equipment
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AS 1102.110 Telecommunications: Transmission

The above parts collectively supersede the following Standards of the 'old' AS 1102 series:

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AS 1102	Graphical symbols for electrotechnology
AS 1102.1—1985	General, qualifying and supplementary symbols (first published in 1973, second edition 1981
AS 1102.2—1981	Conductors and connecting devices (first published in 1973)
AS 1102.3—1983	Resistors, capacitors and inductors (first published in 1973)

AS 1102.4—1983	Electron tubes and rectifiers (first published in 1974)
AS 1102.5—1983	Semiconductor devices (first published in 1972)
AS 1102.6—1982	Rotating electrical machines (first published in 1975)
AS 1102.7—1982	Measuring instruments (first published in 1975)
AS 1102.10—1985	Signal transmission symbols (first published in 1973, second edition 1981)
AS 1102.11—1985	Switching and protective devices (first published in 1976, second edition 1981)
AS 1102.13—1979	Microwave technology
AS 1102.14—1979	Telephony, telegraphy and transducers.

PARTICULAR POINTS ON PART 102

The purpose of this Part (102) is to provide information on symbol elements, qualifying symbols and other symbols having general application to the AS 1102 series. In its terminology, format and general treatment of the subject, this Standard aligns with IEC 617-2 (1983) except as modified to suit Australian conditions and includes a number of non-IEC symbols which represent Australian practice. These Australian symbols are separately identified (see Clauses 1.4 to 1.8 of Part 101).

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