AS 1046, Part 1—1978

Australian Standard®

LETTER SYMBOLS FOR USE IN ELECTROTECHNOLOGY

Part 1—GENERAL

The following scientific, industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Australian Electrical and Electronics Manufacturers Association

Australian Institute of Refrigeration, Air Conditioning and Heating Inc.

Confederation of Australian Industry

Department of Construction

Department of Defence

Department of Productivity

Department of Transport

Electricity Supply Association of Australia

Institute of Draftsmen, Australia

Institution of Radio and Electronics Engineers, Australia

Melbourne and Metropolitan Board of Works

Queensland Chamber of Mines

Railways of Australia Committee

Technical press

Telecom Australia

This standard, prepared by the Joint Telecommunications and Electronics and Electrical Committee TE/13, Symbols, Units and Quantities for Electrotechnology, was approved on behalf of the Council of the Standards Association of Australia on 4 August 1977, and was published on 1 December 1978.

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PREFACE

This standard is one of a series being prepared by the Association's Committee on Symbols, Units and Quantities for Electrotechnology under the authority of both the Telecommunications and Electronics, and the Electrical Standards Boards. It is a revision of the 1972 edition.

In its terminology, format and general treatment of the subject, this standard is consistent with IEC 27-1 published by the International Electrotechnical Commission. Acknowledgement is made of the assistance received from this source.

This standard was originally based on IEC 27(1966) with account being taken of changes made in international symbology following the publication of ISO 1000, SI Units and Recommendations for the Use of Their Multiples and of Certain Other Units. Subsequently IEC 27 was superseded by IEC 27-1 and 27-1A and this revision was undertaken to bring the standard into line with the revised requirements therein.

The purpose of the standard is thus to collate symbols for the quantities and units fundamental to the various disciplines involved in electrotechnology.

While it remains very largely in line with IEC 27-1, it incorporates some changes in the advice given on the use of symbols to bring it into line with AS 1000, The International system of Units (SI) and Its Application.

A further reason for revision was given by the publication of IEC 27-2 on symbols for tele-communications and electronics which forms Part 2 of this standard. The revision of Part 1 was necessary to provide guidance for the use of Part 2 particularly with regard to the use of indices and the structure of complex symbols. The symbols given in Table 4-G, Acoustics, of the first edition of Part 1 are now in Part 2.

In some degree, this standard is complementary to AS 1000 insofar as it covers letter symbols for many quantities and includes some information, for example on mathematical symbols, not within the scope of AS 1000. Some non-SI units are mentioned because of their extensive use in textbooks and papers originating overseas but it is emphasized that for future Australian practice preference should be given to those units within the International System. This standard should therefore be read in conjunction with AS 1000.

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