

Australian/New Zealand Standard™

**Radiocommunications equipment used
in the paging service**

Part 1: Angle modulated equipment

[Modified and containing the full text of ETS 300 224:1998]

AS/NZS 4769.1:2000

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee RC/1, Radiocommunications Equipment—General. It was approved on behalf of the Council of Standards Australia on 31 January 2000 and on behalf of the Council of Standards New Zealand on 24 January 2000. It was published on 20 April 2000.

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Australian/New Zealand Standard™

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Part 1: Angle modulated equipment

First published as AS/NZS 4769.1:2000.
Reissued incorporating Amendment No. 1 (August 2002).

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Jointly published by Standards Australia International Ltd, PO Box 1055, Strathfield, NSW 2135 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 3287 9

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee RC/1, Radiocommunications Equipment—General, as one of a series of Standards intended to provide specification for spectrum management and minimum radio equipment performance.

This Standard incorporates Amendment No.1 (August 2002). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

It is produced in two parts, with Part 1 pertaining to angle modulated equipment reproduced from European Telecommunication Standard ETS 300 224:1998, *Electromagnetic compatibility and Radio spectrum matters (ERM), On-site paging service—Technical and functional characteristics for on-site paging systems, including test methods*, drawn up by the EMC and Radio Spectrum Matters (ERM) Technical Committee of the European Telecommunications Standards Institute. Part 2 pertains to amplitude modulated systems and is of local origin to align with other Australian/New Zealand AM Standards.

This Standard is Part 1 of AS/NZS 4769, *Radiocommunications equipment used in the paging service*, which is published in parts as follows:

AS/NZS

4769 Radiocommunications equipment used in the paging service

Part 1: Angle modulated equipment (this Standard)

Part 2: Amplitude modulated equipment

This Standard differs from ETS 300 224:1994 in that some requirements are varied to reflect local conditions and usage. A table is included providing Australian and New Zealand requirements in addition to variations reflecting local environmental conditions.

Where the text of ETS 300 224 has been varied technically to accommodate different or additional requirements for Australia and New Zealand, it is indicated by double vertical lines in the left hand margin against the clause affected. Australian and New Zealand variations to ETS 300 224 are given in Appendix ZZ at the end of this publication.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. A ‘normative’ appendix is an integral part of a Standard.

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

- (a) Its number appears on the cover and title page while the European Standard number appears only on the cover.
- (b) In the source text ‘this European Telecommunications Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

There are no Australian/New Zealand Standards equivalent to those international Standards listed as normative references, thus the originally referenced Standards apply.

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FOREWORD

This second edition European Telecommunication Standard (ETS) has been produced by the EMC and Radio Spectrum Matters (ERM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

This ETS has been produced by ETSI in response to a mandate from the European Commission issued under Council Directive 83/189/EEC (as amended) laying down a procedure for the provision of information in the field of technical standards and regulations.

This ETS, together with ETS 300 682, is intended to become a Harmonized Standard, the reference of which will be published in the Official Journal of the European Communities referencing the Council Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility ("the EMC Directive") (89/336/EEC as amended).

Annex A provides requirements concerning test sites and general arrangements for measurements involving the use of radiated fields.

Annex B provides requirements concerning measuring support for pocket equipment.

Annex C contains specifications for the adjacent channel power measuring receiver.

Annex D is a graphical representation of subclause 10.4.1.3 referring to the limits for spurious radiation from loop receivers.

Annex E contains technical specifications relevant to the EMC Directive.

Annex F contains the ERC Decision which references the technical specifications in this ETS for inclusion in national type approval regulations.

Annex G provides information concerning the on-site paging service.

Annex H contains a bibliography.

This ETS also contains text concerning type approval of the equipment to which it relates. This text should be considered only as guidance and does not make this ETS mandatory in its status as a standard. However, this ETS can be referenced, wholly or in part, for mandatory application by decisions of regulatory bodies.

This ETS is based mainly on CEPT Recommendation T/R 20-05 and ESPA publications 4.2.6 and 4.2.6.a.

The conditions for licensing as well as conditions for interfacing to Public Switched Telephone Network (PSTN) are determined by the appropriate authorities.

Transposition dates	
Date of adoption of this ETS:	20 February 1998
Date of latest announcement of this ETS (doa):	30 June 1998
Date of latest publication of new National Standard or endorsement of this ETS (dop/e):	31 December 1998
Date of withdrawal of any conflicting National Standard (dow):	31 December 1998

AUSTRALIAN/NEW ZEALAND STANDARD

Radiocommunications equipment used in the paging service

Part 1: Angle modulated equipment

1 Scope

This European Telecommunication Standard (ETS) specifies the minimum performance characteristic and the related methods of measurement for on-site paging transmitters and receivers. Although this ETS covers the general operational aspects of on-site paging systems, it is restricted to the wireless (radio and loop) communications of the service. It is assumed that the radio type of system will operate in the frequency range of 25 MHz to 470 MHz, and loop systems below 146 kHz.

This ETS does not cover radiation below 25 MHz, except for the output of loop equipment.

This ETS does not include performance characteristics that may be required by the user or requirements for interfacing equipment.

Additional standards or specifications may be required for equipment intended to interface to the Public Switched Telephone Network (PSTN).

This ETS also contains instructions for the presentation of equipment for type testing purposes.

The types of equipment covered by this ETS are as follows:

- base station transmitters (radio and loop) and transcoders, with or without an external 50 Ω antenna connector;
- base station receivers, with a permanent 50 Ω connector;
- pocket unit (receiver, transceiver or transmitter), with or without an external 50 Ω antenna connector.

2 Normative references

This ETS incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- | | |
|-----|---|
| [1] | ETR 027: "Radio Equipment and Systems (RES); Methods of measurement for private mobile radio equipment". |
| [2] | ETR 028: "Radio Equipment and Systems (RES); Uncertainties in the measurement of mobile radio equipment characteristics". |

3 Definitions and abbreviations

3.1 Definitions

For the purposes of this ETS, the following definitions apply:

base station receiver: Receiver intended for use in a fixed location.

base station transmitter: Transmitter intended for use in a fixed location.