

Australian/New Zealand Standard™

**Radiocommunications equipment
used in the paging service**

Part 2: Amplitude modulated equipment

AS/NZS 4769.2:2000

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 1 March 2000. It was published on 20 April 2000.

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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 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.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand**Radiocommunications equipment used in the paging service****Part 2: Amplitude modulated equipment****1 SCOPE**

This Standard specifies the minimum performance characteristics and related test methods of measurement for amplitude modulated paging transmitters and receivers operating in the 27 MHz and 40 MHz bands.

NOTE: Paging systems using pulse modulation are required to comply with this Standard.

2 REFERENCED DOCUMENT

The following document is referred to in this Standard:

AS

4769 Radiocommunications equipment used in the paging service

4769.1 Part 1: Angle modulated equipment

3 DEFINITIONS

For the purposes of this Standard, the definitions below apply.

3.1 Artificial load

A non-reactive, non-radiating load whose impedance as presented to the transmitter corresponds to the terminal impedance of the antenna normally connected to the transmitter.

NOTE: This is normally 50 Ω .

3.2 Base station

A radiocommunications transmitter, receiver or transceiver fitted with an antenna connector, for use with an external antenna and suitable for use at a fixed location.

3.3 Battery end-of-life voltage

The manufacturer's declared battery voltage below which the equipment is incapable of operating in accordance with the manufacturer's stated specifications.

3.4 Carrier power (transmitter)

The mean power delivered to the artificial load during a single radiofrequency cycle, in the absence of modulation.

3.5 Combining network

An impedance matching network intended to facilitate the connection of two or more test signal sources to the receiver input.

3.6 Conducted spurious radiation (receiver)

Radiofrequency signals generated from components and wiring within the receiver and which are radiated by way of conduction from the radiofrequency terminals of the receiver.

3.7 Frequency error (transmitter)

The difference between the measured carrier frequency and its nominal value.