

Australian Standard™

**Electronic animal identification—
Radiofrequency methods**



S t a n d a r d s Australia

This Australian Standard was prepared by Committee IT-028, Electronic Animal Identification and Data Capture Systems. It was approved on behalf of the Council of Standards Australia on 4 May 2001 and published on 7 June 2001.

The following interests are represented on Committee IT-028:

Australian Animal Registry
Australian Companion Animals Council
Australian Electrical and Electronic Manufacturers Association
Australian Horse Industry Council
Australian Information Industry Association
Australian National Kennel Council
Australian Veterinary Association
Canine Control Council (Queensland)
Department of Local Government (N.S.W.)
Department of Primary Industry and Energy (Commonwealth)
Local Government and Shires Associations of New South Wales
Meat and Livestock Australia
National Farmers Federation
National Livestock Identification Association
RSPCA Australia

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PREFACE

This Standard was prepared by the Standards Australia Committee IT-028, Electronic Animal Identification and Data Capture Systems. It has been reproduced from ISO 11785:1996, *Radio-frequency identification of animals—Technical concept*.

Additional requirements for application in Australia are given in Annex ZA and considerations relating to these requirements are set out in Annex ZB.

The objective of this Standard is to provide manufacturers and users of radiofrequency-based animal identification systems with a set of product specifications for the design, deployment and use of implanted radiofrequency transponder technology.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral part of a Standard, whereas an 'informative' annex is only for information and guidance.

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

- (a) Its 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 Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to equivalent Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
ISO		AS	
11784	Radio-frequency identification of animals—Code structure	5018	Electronic animal identification—National coding scheme

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NOTES

AUSTRALIAN STANDARD

Electronic animal identification—Radiofrequency methods

1 Scope

This International Standard specifies how a transponder is activated and how the stored information is transferred to a transceiver.

2 Conformance

Transponders are in conformance with this International Standard provided they meet the requirements given in clause 6 of this International Standard. Transceivers are in conformance with this International Standard provided they meet the requirements given in clause 6 and annex A, if the latter is applicable.

In order to allow a smooth transition from the different transponders presently in use to those complying with this International Standard, transponders meeting the requirements of annex A may be applied for a transition period of two years from the date of the first edition of this International Standard.

3 Normative references

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 11784:1996, *Radio-frequency identification of animals — Code structure*.

4 Definitions

For the purposes of this International Standard, the following definitions apply.

4.1 activation field: Electromagnetic field transmitted by a transceiver to energize and/or activate a transponder.

4.2 activation frequency: Frequency of the activation field.

4.3 activation period: Time duration of the activation signal.