AS 2201.3—1991

Australian Standard®

Intruder alarm systems

Part 3: Detection devices for internal use

This Australian Standard was prepared by Committee EL/31, Intruder Alarm Equipment and Installations. It was approved on behalf of the Council of Standards Australia on 4 October 1990 and published on 28 March 1991.

The following interests are represented on Committee EL/31:

Association of Burglary Insurance Surveyors Australasia

Australian Electrical and Electronic Manufacturers Association

Australian Security Industry Association

Building Owners and Managers Association of Australia

Confederation of Australian Industry

Department of Administrative Services - Australian Construction Services

Department of Defence

Insurance Council of Australia

Metal Trades Industry Association of Australia

N.S.W Police Department

N.S.W Public Works Department

Tasmania Police

Telecom Australia

Victoria Police

Victorian Security Institute

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AS 2201.3—1991

Australian Standard®

Intruder alarm systems

Part 3: Detection devices for internal use

First published as AS 2201.3—1985. Second edition 1991.

AS 2201.3—1991

PREFACE

This Standard was prepared by the Standards Australia Committee on Intruder Alarm Equipment and Installations.

This Standard is Part 3 of a three-part Standard, the parts of which are as follows:

Part 1: Systems Installed in Client's Premises

Part 2: Central Stations and Signalling Links

Part 3: Detection Devices for Internal Use (this part)

This Standard is basically the same as AS 2201.3—1985 but incorporates changes to make it suitable for quality assurance certification on detection devices. It details the minimum performance requirements of a variety of detection devices together with their associated test methods. Only commonly used detectors are included and closed-circuit television and the external type of detectors have been excluded. Equipment which can comply with these requirements can be considered to be of high quality and thus help to reduce the high false alarm rate currently being experienced. The test methods have been selected for the worst conditions and these conditions should be avoided in practice.

It should be noted that the requirements and test methods specified may be different and more onerous than those specified in International Standards such as Underwriters Laboratories Standard for Safety, UL 639, Intrusion-detection units, and International Electrotechnical Commission Standard, IEC 839, Alarm systems. It is the intention of the Committee to bring this Standard into line with such International Standards (IEC 839-2, Part 2: *Requirements for intruder alarm systems*, is still under consideration) with the publication of a new edition at a later date.

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

		Page
SECTION	N 1 SCOPE AND GENERAL	
1.1	SCOPE	4
1.2	APPLICATION	4
1.3	REFERENCED DOCUMENTS	4
1.4	DEFINITIONS	4
SECTION	N 2 GENERAL REQUIREMENTS FOR DETECTORS	
2.1	ENVIRONMENTAL CONSIDERATIONS	6
2.2	IMMUNITY FROM SUPPLY VOLTAGE VARIATIONS	6
2.3	IMMUNITY FROM ELECTROMAGNETIC INTERFERENCE	6
2.4	ACCESSIBILITY	6
2.5	TAMPER DETECTION	6
2.6	END OF LINE SUPERVISION	6
2.7	IMMUNITY FROM VIBRATION	6
2.8	CONSTRUCTION	6
2.9	RESISTANCE TO CORROSION	6
2.10	STABILITY	
2.11	ALARM PERIOD	
2.12	TEST FACILITIES	
2.13	MARKING	
2.13		,
SECTION	N 3 ADDITIONAL GENERAL REQUIREMENTS FOR MOVEMENT	
	DETECTORS	
3.1	RANGE REQUIREMENTS	8
3.2	SENSITIVITY	8
SECTION	N 4 SPECIFIC REQUIREMENTS FOR PARTICULAR TYPES OF	
	DETECTORS	
4.1	DOPPLER ULTRASONIC MOVEMENT DETECTORS	9
4.2	UHF RADIO MOVEMENT DETECTORS	
4.3	DOPPLER MICROWAVE MOVEMENT DETECTORS	
4.4	PASSIVE INFRARED MOVEMENT DETECTORS	
4.5	ACOUSTIC DETECTORS	11
4.6	CAPACITIVE TOUCH DETECTORS	11
4.7	VIBRATION DETECTORS	11
4.8	BEAM INTERRUPTION DETECTORS	11
4.9	PRESSURE MATS	12
4.10	ELECTROMECHANICAL SWITCHES	12
4.11	FOIL	12
4.12	PRINTED CIRCUIT WIRING	13
APPEND		
A	GENERAL TEST REQUIREMENTS	15
В	TEMPERATURE VARIATION TEST	16
C	TAMPER RESISTANCE TEST	18
D	MECHANICAL STRENGTH TEST	19
E	VIBRATION SUSCEPTIBILITY TEST	20
F	SUPPLY VOLTAGE VARIATION TEST	21
G	STABILITY TEST	21
Н	DETECTION RANGE TEST	22
I	SENSITIVITY TESTS	23
J	VERIFICATION OF CATEGORY TEST	27
K	OPERATING FREQUENCY TEST	30
L	MAXIMUM OUTPUT TEST	31
M	ATMOSPHERIC AND OTHER EFFECTS	32



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation