

AS 1284.5—1992

Australian Standard<sup>®</sup>

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## **Electricity metering**

### **Part 5: General purpose electronic watthour meters**

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This Australian Standard was prepared by Committee EL/11, Electricity Metering Equipment. It was approved on behalf of the Council of Standards Australia on 26 June 1992 and published on 12 October 1992.

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The following interests are represented on Committee EL/11:

Australian Electrical and Electronic Manufacturers Association  
Confederation of Australian Industry  
Electricity Supply Association of Australia  
National Standards Commission

The Ministry of Commerce, New Zealand, also participated in preparation of this Standard.

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## PREFACE

This Standard was prepared by the Standards Australia Committee on Electricity Metering Equipment in conjunction with the Ministry of Commerce, New Zealand. With the exception of the Foreword and Appendix AA, it is identical with and has been reproduced from IEC 1036:1990, *Alternating current static watt-hour meters for active energy (classes 1 and 2)*.

This Standard is a Part of AS 1284, *Electricity metering*, which is published in Parts as follows:

AS

- 1284.1 Part 1: General purpose induction watthour meters
- 1284.2 Part 2: Portable alternating current rotating standard watthour meters
- 1284.3 Part 3: Induction watthour meters—Energy demand type
- 1284.4 Part 4: Socket mounting system
- 1284.5 Part 5: General purpose electronic watthour meters
- 1284.6 Part 6: Ripple control receivers for tariff and load control

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For the purposes of this Australian Standard, the IEC text should be modified as follows:

- (i) *General* As specified in Appendix AA for Australia or New Zealand (see also marginal bars).
- (ii) *Decimal marker* Substitute a full point for a comma as a decimal marker.
- (iii) *References* Replace references to other publications by references to Australian Standards as follows:

NOTE: It is for the reader to investigate any differences between the listed International and Australian Standards.

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
IEC		AS	
38	IEC standard voltages	2926	Standard voltages—Alternating (50 Hz) and direct
50	International Electrotechnical Vocabulary	1852	International electrotechnical vocabulary
50(301)	Chapter 301: General terms on measurements in electricity	1852.301	General terms on measurements in electricity
50(302)	Chapter 302: Electrical measuring instruments	1852.302	Electronic measuring instruments
50(303)	Chapter 303: Electronic measuring instruments	1852.303	Electronic measuring instruments
60	High-voltage test techniques	1931	High voltage testing techniques
68	Environmental testing	1099	Basic environmental testing procedures for electrotechnology
68-2-1	Part 2: Tests Tests A: Cold	1099.2Aa 1099.2Ab 1099.2Ad	Cold tests (bound together)
68-2-2	Part 2: Tests Tests B: Dry heat	1099.2Ba 1099.2Bb 1099.2Bc 1099.2Bd	
68-2-5	Part 2: Tests Test Sa: Simulated solar radiation at ground level	1099.2Sa	
68-2-6	Part 2: Tests Test Fc and guidance: Vibration (sinsusoidal)	1099.2.6	Test Fc — Vibration (sinsusoidal)
68-2-11	Part 2: Tests Test Ka: Salt mist	1099.2.Ka	Salt mist

68-2-27	Part 2: Tests Test Ea and guidance: Shock	1099.2.27	Test Ea—Shock
68-2-30	Part 2: Tests Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle)	1099.2.Db	Damp heat, cyclic (12 + 12 hours)
85	Thermal evaluation and classification of electrical insulation	2768	Electrical insulating materials—Evaluation and classification based on thermal endurance
185	Current transformers	1675	Current transformers—Measurement and protection
186	Voltage transformers	1243	Voltage transformers for measurement and protection (No Australian equivalent)
255	Electrical relays		See AS 2481, <i>All-or-nothing electrical relays (instantaneous and timing relays)</i>
255-4	Part 4: Single input energizing quantity measuring relays with dependent specified time		
269	Low-voltage fuses	2005	Low voltage fuses — Fuses with fuse-links
269-1	Part 1: General requirements	2005.1	Part 1: General requirements (No Australian equivalent)
359	Expression of the performance of electrical and electronic measuring equipment		
387	Symbols for alternating current electricity meters		(No Australian equivalent)
417	Graphical symbols for use on equipment—Index, survey and compilation of the single sheets	1104	Informative symbols for use on electrical and electronic equipment
514	Acceptance inspection of Class 2 alternating-current watt hour meters	1104S	Individual symbol sheets (No Australian equivalent)
521	Class 0.5, 1 and 2 alternating-current watt hour meters		(See Foreword)
529	Degrees of protection provided by enclosures (IP Code)	1939	Degrees of protection provided by enclosures for electrical equipment (IP Code) (No Australian equivalent)
664	Insulation co-ordination within low-voltage systems including clearances and creepage distances for equipment		
687	Static watt hour meters—Metrological specifications for classes 0.2 S and 0.5 S		(No Australian equivalent)
695	Fire hazard testing	2420	Fire test methods for solid insulating materials and non-metallic enclosures used in electrical equipment
695-2-1	Part 2: Test methods Glow-wire test and guidance		
721	Classification of environmental conditions		(No Australian equivalent)
721-3-3	Part 3: Classification of groups of environmental parameters and their severities—Stationary use at weatherprotected locations		
736	Testing equipment for electrical energy meters		(No Australian equivalent)
801	Electromagnetic compatibility for industrial-process measurement and control equipment		(No Australian equivalent)

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