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Australian Standard®

Telecontrol equipment and systems

Part 2.1: Operating conditions— Power supply and electromagnetic compatibility

[IEC title: Telecontrol equipment and systems, Part 2: Operating conditions—Section 1: Power supply and electromagnetic compatibility]

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This Australian Standard was prepared by Committee IT/24, Supervisory Control and Data Acquisition. It was approved on behalf of the Council of Standards Australia on 5 January 1998 and published on 5 April 1998.

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PREFACE

This Standard was prepared by the Standards Australia Committee IT/24, Supervisory Control and Data Acquisition.

The Standard is identical with and has been reproduced from IEC 60870-2-1:1995, *Telecontrol equipment and systems*, Part 2: *Operating conditions*, Section 1: *Power supply and electromagnetic compatibility*.

IEC has decided to apply a new numbering system, the 60000 series, to all its existing and future publications, including amendments to existing Standards. As a consequence, IEC has modified the bibliographic references in its databases to accord with the new numbering system. All IEC publications issued since the beginning of 1997 will carry references in terms of the 60000 series numbering. Publications printed earlier than 1997 will continue to carry the old series of numbers. For example, a reference to the IEC 60870 series of Standards will be to IEC 870 if the current edition of the Standard was printed prior to 1997.

This Standard is identical with a pre-1997 document therefore it uses the old series of numbers.

The objective of this Standard is to provide manufacturers and users of telecontrol equipment and systems with power supply and EMC specifications in order to ensure optimal performance, under all conditions, in Australia.

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 substitutes for a comma when referring to a decimal marker.

The references to international Standards should be replaced by references to the following Australian Standards:

Australian Standard

Reference to International Standard or other Publication

IEC 38	IEC standard voltages	AS	
50	International Electrotechnical Vocabulary (IEV)		
50(161)	Chapter 161: Electromagnetic compatibility		
60	High-voltage test techniques	1931	High-voltage test techniques (all parts)
664	Insulation coordination for equipment within low-voltage systems		
664-1	Part 1: Principles, requirements and tests		
1000	Electromagnetic compatibility (EMC)		

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1000-3-2	Part 3: Limits—Section 2: Limits for harmonic current	—
	emissions (equipment input	
	current less than or equal to	
	16 A per phase)	
1000-3-3	Part 3: Limits—Section 3:	
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	fluctuations and flicker in low-	
	voltage supply systems for	
	equipment with rated current less	
	than or equal to 16 A	
1000-4-1	Part 4: Testing and measurement	
	techniques—Section 1:	
	Overview of immunity	
	tests—Basic EMC Publication	
1000-4-2	Part 4: Testing and measurement	
	techniques—Section 2:	
	Electrostatic discharge immunity	
	test—Basic EMC Publication	
1000-4-3	Part 4: Testing and measurement	
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	radio-frequency, electromagnetic	
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1000-4-5	Part 4: Testing and measurement	
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1000-4-6(DIS)	Part 4: Testing and	
	measurement techniques-	
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	by radio-frequency fields—Basic	
	EMC Publication	
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