

Australian/New Zealand Standard™

**Electromagnetic compatibility (EMC)**

**Part 4.30: Testing and measurement  
techniques—Power quality  
measurement methods**



### **AS/NZS 61000.4.30:2012**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-034, Power Quality. It was approved on behalf of the Council of Standards Australia on 4 May 2012 and on behalf of the Council of Standards New Zealand on 26 April 2012.

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**Electromagnetic compatibility (EMC)**

**Part 4.30: Testing and measurement techniques—Power quality measurement methods**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-034, Power Quality, to supersede AS/NZS 61000.4.30:2007, *Electromagnetic compatibility (EMC)—Part 4.30: Testing and measurement techniques—Power quality measurement methods*.

The objective of this Standard is to define the methods for measurement and interpretation of results for power quality parameters in 50/60 Hz a.c. power supply systems. The power quality parameters considered in this Standard are power frequency, magnitude of the supply voltage, flicker, supply voltage dips and swells, voltage interruptions, transient voltages, supply voltage unbalance, voltage harmonics and interharmonics, mains signalling on the supply voltage and rapid voltage changes.

This Standard is identical with, and has been reproduced from IEC 61000-4-30, Ed.2.0 (2008), *Electromagnetic compatibility (EMC)—Part 4-30: Testing and measurement techniques—Power quality measurement methods*.

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| <i>Reference to International Standard</i>  | <i>Australian/New Zealand Standard</i>  |
|---|---|
| IEC   | AS/NZS  |
| 61000 Electromagnetic compatibility (EMC)   | 61000 Electromagnetic compatibility (EMC)   |
| 61000-2-2 Part 2-2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems | 61000.2.2 Part 2.2: Environment—Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems |
| 61000-2-4 Part 2-4: Environment—Compatibility levels in industrial plants for low-frequency conducted disturbance                                       | 61000.2.4 Part 2.4: Environment—Compatibility levels in industrial plants for low-frequency conducted disturbances                                      |
| 61000-4-4 Part 4-4: Testing and measurement techniques—Electrical fast transient/burst immunity test  | 61000.4.4 Part 4.4: Testing and measurement techniques—Electrical fast transient/burst immunity test  |
| 61000-4-15 Part 4-15: Testing and measurement techniques—Flickermeter—Functional and design specifications  | 61000.4.15 Part 4.15: Testing and measurement techniques—Flickermeter—Function and design specifications  |

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

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