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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17626.15-2011

**Electromagnetic compatibility -- Testing and measurement
techniques -- Flicker meter -- Functional and design
specifications**

电磁兼容 试验和测量技术 闪烁仪 功能和设计规范

(English Translation)

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Foreword

GB/T 17626 "electromagnetic compatibility test and measurement technology" is divided into the following sections.

GB/T 17626.1-2006 Electromagnetic compatibility - Testing and measurement techniques - Overview of immunity tests
GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test
GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test
GB/T 17626.4-2008 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst immunity test
GB/T 17626.5-2008 Electromagnetic compatibility - Testing and measurement techniques - Surge (impact) immunity test
GB/T 17626.6-2008 Electromagnetic compatibility - Testing and measurement techniques Immunity to conducted disturbances induced field
GB/T 17626.7-2008 Electromagnetic compatibility - Testing and measurement techniques - power supply systems and equipment connected harmonics, interharmonics measurements and Measuring Instruments Guide
GB/T 17626.8-2006 Electromagnetic compatibility - Testing and measurement techniques - Power frequency magnetic field immunity test
GB/T 17626.9-2011 Electromagnetic compatibility - Testing and measurement techniques - Pulse magnetic field immunity test
GB/T 17626.10-1998 electromagnetic compatibility test and

measurement techniques - Damped oscillatory magnetic field immunity test GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test GB/T 17626.12-1998 electromagnetic compatibility test and measurement techniques - Oscillatory waves immunity test GB/T 17626.13-2006 electromagnetic compatibility test and measurement technology AC power port harmonics and interharmonics including mains signaling Low frequency immunity tests GB/T 17626.14-2005 Electromagnetic compatibility Testing and measurement techniques - Voltage fluctuation immunity test GB/T 17626.16-2007 electromagnetic compatibility test and measurement technology 0Hz ~ 150kHz common mode conducted disturbances immunity test GB/T 17626.17-2005 electromagnetic compatibility test and measurement technology dc input power port immunity test ripple GB/T 17626.27-2006 Electromagnetic compatibility Testing and measurement techniques - Unbalance, immunity test GB/T 17626.28-2006 electromagnetic compatibility test and measurement techniques - Variation of power frequency, immunity test GB/T 17626.29-2006 electromagnetic compatibility test and measurement technology dc input power port voltage dips, short interruptions and Voltage variations immunity tests this is Part 15 GB/T 17626 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section identical with the international standard IEC 61000-4-15:1997 A1:2003 (Version 1.1) "electromagnetic compatibility test and measurement technology Flashing surgery instrument functions and design specifications "and the following editorial changes.

--- Normative reference to IEC 61000-4 and IEC 61010-1 series of standards referenced in the file, its version is too low, taking into account these standard version change frequently, so it is changed to the corresponding national standards are not dated references;

--- Of Tables 4 to No. 8 have been adjusted. This section of Table 4 correspond to IEC 61000-4-15. in 2003.1997 A1

Table 8, 2003 Revision member new form; the full text of the standard in order to ensure the continuity of the table number, table numbers to change

Table 4, all subsequent table numbers sequentially adjusted.

Electromagnetic Compatibility This part of the National Standardization Technical Committee (SAC/TC246) and focal points.

This section is responsible for drafting unit. Shanghai Electric Apparatus Research Institute, Shanghai Sanki Co.

1 Scope

This section provides flicker measurement instrument functions and design specifications, intended for all practical voltage fluctuation waveform display flashes the correct Perceptual

level. This section lists information about the formation of such an instrument, given based on the output results for this part of the scintillation counter to Flicker severity assessment methods.

Some of the content in this section is the work of the International Union Electric (UIE) "harassment" of the Working Group based on some of the content is based on the IEEE's work, Other content is based on the IEC 's own work. The scintillation specification relates to measuring input 230V/50Hz and 120V/60Hz; and to Other voltage and frequency specifications are under consideration.

Note: This section is based on the instrument specification data input voltage/frequency is given in the case of 230V/50Hz and 120V/60Hz, and for domestic use 220V/50Hz power grid, can be specifically calculated on the basis of the same specification and design theory.

This section applies to design analog or digital flicker measuring equipment to provide basic information, it did not give a flicker severity allowable limits.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (IEC 60068-2-1:2007, IDT) GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat (IEC 60068-2-2:2007, IDT) GB/T 2423.22-2002 Environmental testing for electric and electronic products Part 2. Test methods - Test N. Temperature change (IEC 60068-2-14. 1984, IDT) GB 4793.1 measurement, control and laboratory safety requirements for electrical equipment - Part 1. General requirements (GB 4793.1-2007, IEC 61010-1:2001, IDT) GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques - Electrostatic discharge immunity test (GB/T 17626.2-2006, IEC 61000-4-2:2001, IDT) GB/T 17626.3 electromagnetic compatibility test and measurement technology RFEMS test (GB/T 17626.3-2006, IEC 61000-4-3:2002, IDT) GB/T 17626.4 Electromagnetic compatibility Testing and measurement techniques - Electrical fast transient burst immunity test (GB/T 17626.4-2008, IEC 61000-4-4:2004, IDT) GB/T 17626.5 electromagnetic compatibility test and measurement technology surge (impact) immunity test (GB/T 17626.5-2008, IEC 61000-4-5:2005, IDT) GB/T 17626.6 electromagnetic compatibility test and measurement technology RF field induced immunity to conducted disturbances (GB/T 17626.6-2008, IEC 61000-4-6:2006, IDT) GB/T 17626.8 Electromagnetic compatibility Testing and measurement techniques - Power frequency magnetic field immunity test (GB/T 17626.8-2006, IEC 61000-4-8:2001, IDT) GB/T 17626.9 Electromagnetic compatibility Testing and measurement techniques - Pulse magnetic field immunity test (GB/T 17626.9-2011, IEC 61000-4-9:2001, IDT) GB/T 17626.11 Electromagnetic compatibility

Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests