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

GB/T 6587.1-1986

B/T 6587.8-1986; GB/T 6587.6-1986; GB/T 6587.5-1986; GB/T 6587.4-1986; GB/T 6587.3-1986; GB/T 6587.2-1986

**General specification for electronic measuring instruments
(English Translation)**

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Foreword

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

This standard replaces GB/T 6587.1-1986 "master environmental testing electronic measuring instruments", GB/T 6587.2-1986 "electronic measuring instrument Temperature Test ", GB/T 6587.3-1986" electronic measuring instruments humidity test ", GB/T 6587.4-1986" electronic measuring instrument vibration Test ", GB/T 6587.5-1986" electronic measuring instruments impact test ", GB/T 6587.6-1986" electronic measuring instruments test transport " GB/T 6587.8-1986 "electronic measuring instruments and power frequency voltage test", GB/T 6593-1996 "electronic measuring instruments Quality Inspection rule".

This standard incorporate and adjust the GB/T 6587.1-1986, GB/T 6587.2-1986, GB/T 6587.3-1986, GB/T 6587.4-1986, GB/T 6587.5-1986, GB/T 6587.6-1986, GB/T 6587.8-1986, GB/T 6593-1996 within the applicable Yung. The main changes are as follows.

- Added "Terms and definitions" (see Chapter 3);
- Increasing the "look and structure, function, performance characteristics, interface, compatibility or cooperate with each other" (see 4.1,4.3,4.4,4.5);
- Increasing the "safety requirements" (see 4.6);
- Added "EMC requirements" (see 4.9);
- Increase the "reliability and stability" (see 4.11);
- Added "Size and Weight" (see 4.2).

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This standard by the National Standardization Technical Committee Electronic Measuring Instruments (SAC/TC153) centralized.

This standard was drafted. China Electronics Standardization Institute.

1 Scope

This standard specifies the electronic measuring instruments including systems and auxiliary equipment (hereinafter referred to as equipment) terminology, requirements, test methods and quality inspection Inspection rules.

This standard applies to all types of electronic measuring instruments, the main technical basis for product development, design, production, inspection and testing, but also it is to develop the principles and basic electronic measuring instruments product standards and other technical documents should follow.

2 Normative references

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

GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch inspection sampling plan GB 4793.1-2007 measurement, control and laboratory safety requirements for electrical equipment - Part 1. General requirements GB 4824 industrial, scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement GB/T 6592 Electrical and electronic measurement equipment - Expression of performance GB/T 9969 General Instructions industrial products GB/T 11463 electronic measuring instrument reliability test GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques - Electrostatic discharge immunity test GB/T 17626.3 electromagnetic compatibility test and measurement technology RFEMS test GB/T 17626.4 Electromagnetic compatibility Testing and measurement techniques - Electrical fast transient burst immunity test GB/T 17626.5 electromagnetic compatibility test and measurement technology surge (impact) immunity test GB/T 17626.6 Electromagnetic compatibility Testing and measurement techniques Immunity to conducted disturbances induced field GB/T 17626.8 Electromagnetic compatibility Testing and measurement techniques - Power frequency magnetic field immunity test GB/T 17626.11 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests Electrical equipment EMC requirements - Part GB/T 18268.1-2010 measurement, control and laboratory use 1. General requirements

3 Terms and Definitions

GB/T 2828.1-2003 defined and the following terms and definitions apply to this document.

Electronic Measuring Instruments the use of electronic technology to measure power or

power instruments and other devices.

System

In order to achieve a predetermined combination of the measurement object from a group of interconnected instruments, which include measuring computer or processor used.

Temperature stable temperature stability when most yuan, the device (including the maximum amount of heat units or components) temperature changes per hour is not greater than 2 °C, called temperature stable.