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CCS N08



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

**GB/T 25480-2010**

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**Basic environmental conditions and testing methods for  
transportation and storage of instruments**

仪器仪表运输、贮存基本环境条件及试验方法

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### Foreword

The standard proposed by China Machinery Industry Federation. This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized. Drafting of this standard. Shanghai Industrial Automation Instrument Research Institute, Shanghai Institute of optical instruments, Shanghai Automation Instrumentation System Inspection and Testing. The main drafters of this standard. Li Minghua, Zhang Hui Yin, Tsai Wen-chi. Instrumentation transportation, storage Basic environmental conditions and test methods

### 1 Scope

GB/T 25480-2010 is the Chinese national standard on basic environmental conditions and testing methods for transportation and storage of instruments, in the field of testing. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 December 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2011. Classification: ICS 19.020, CCS N08. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the instruments for transport and storage of basic environmental conditions, test methods, inspection rules. This standard applies to all types of instrumentation products with packaging, transport and storage. There are special requirements for the storage and transportation of products, its products Standard separately.

### 2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold ( GB/T 2423.1- 2008, IEC 60068-2-1.2007, IDT)

GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat ( GB/T 2423.2- 2008, IEC 60068-2-2.2007, IDT)

GB/T 2423.4 Environmental testing for electric and electronic products Part 2. Test methods - Test Db. Damp heat (12h 12h cycle) ( GB/T 2423.4-2008, IEC 60068-2-30.2005, IDT)

GB/T 2423.43 Environmental testing for electric and electronic products - Part 2. vibration, impact and similar dynamic tests like Test Method Installation goods ( GB/T 2423.43-2008, IEC 60068-2-47.2005, IDT)

IEC 60068-2-27.2008 Environmental testing - Part 2-27. Test Ea and guidance. Shock

IEC 60068-2-31.2008 Environmental testing - Part 2-31. rough handling impact (primarily for equipment - type specimens)

### 3 Basic environmental conditions

Instruments of transportation and storage environmental conditions should be basic requirements of product standards, selection grade rating from Table 1. Table

1 Instruments transportation, storage and basic environmental conditions classification Ratings No. Basic environmental conditions Project Unit Grade rating Transport storage 1 temperature °C 40,55

2 Low Temperature °C -40, -25 -40, -25, 5 3 relative humidity (25 °C when) 95% 75,85,95

### 4 Impact

Peak acceleration m/s<sup>2</sup> 100 Pulse duration ms 16