

ICS 71.040
CCS N53



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

GB/T 13971-2013

Replacing GB/T 13971-1992

Specification of ultraviolet gas analyzers

紫外线气体分析器技术条件

Issued on: December 17, 2013

Implemented on: June 1, 2014

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Requirements
- 4 Ventilation - specified by the manufacturer

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The revised standard and replaces GB/T 13971-1992 "UV gas analyzer technical conditions." The standard on the technical content of the original standard main changes are as follows:

- Revised linearity error, repeatability, output fluctuations, zero drift, span drift performance requirements;
- Increasing the requirements and test methods affect the amount of supply voltage;
- Increasing the requirements and test methods affect the amount of interference gas component;
- Increased requirements and test methods for mechanical vibration amount;
- Remove the impact of changes in atmospheric pressure - Requirements and test methods. The standard proposed by China Machinery Industry Federation. This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized. This standard by the FPI (Hangzhou) Co., Ltd. is responsible for drafting, Sichuan-Chongqing Analytical Instruments Co., Ltd., Wuhan Tianhong Instrument Co., Ltd., Shanghai Institute of Metrology, Hangzhou Environmental Monitoring Center, and other units to participate in the drafting. The main drafters of this standard. Michael, Ye Huajun, Wang Xinyuan, Li Caodong, WC Keung years, Cai Jianhua, He Xi. This standard replaced the previously issued standards.
- GB/T 13971-1992. UV gas analyzer technical conditions

1 Scope

GB/T 13971-2013 is the Chinese national standard on specification of ultraviolet gas analyzers, in the field of chemical technology. 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 17 December 2013 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 June 2014. Classification: ICS 71.040, CCS N53. 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 requirements, test methods, inspection rules ultraviolet gas analyzer, signs, packaging, transportation and storage. This standard applies to the determination of a component of the mixed gas concentration, regardless of ultraviolet light gas analyzer (hereinafter referred to as equipment), not including UV spectral absorption spectroscopy and UV fluorescence spectroscopy gas analyzer gas analyzer, ultraviolet wavelength range of 150nm ~ 400nm.

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 191-2008 Packaging - Pictorial signs

GB/T 2829-2002 periodic inspection Sampling procedures and tables (suitable for process stability test)

GB 4793.1-2007 measurement, control and laboratory use safety requirements for electrical equipment - Part 1. General requirements

GB/T 11606-2007 analytical instruments environmental test methods

GB/T 13384-2008 mechanical and electrical products packaging General technical conditions

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 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test Electrical equipment

EMC requirements - Part

GB/T 18268.1-2010 measurement, control and laboratory use 1. General requirements

3 Requirements

3.1 Working conditions Instrument under operating conditions specified in Table 1 should be able to work properly. Table

1 Operating Conditions No. Condition Effect of amount per unit under normal operating conditions Atmospheric conditions

4 Ventilation - specified by the manufacturer

5 Mechanical vibration - specified by the manufacturer 6 mechanical shock - specified by the manufacturer