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

GA/T 1323-2016

**General technical requirements for trace explosives detectors
based on the fluorescence polymer sensory technique**

基于荧光聚合物传感技术的痕量炸药探测仪通用技术要求

(English Translation)

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Foreword

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

This standard is proposed by the Ministry of Public Security Science and Technology Information Bureau.

This standard by the National Security Alarm System Standardization Technical Committee (SAC/TC100) centralized.

The drafting of this standard. the Ministry of Public Security Security Alarm System Product Quality Supervision, Inspection and Testing Center, the Ministry of Public Security Third Institute, Public Security Department of Safety and Police Electronic Product Quality Inspection Center, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shaanxi Normal University, Beijing Tongchuang Haicheng Technology Development Co., Ltd., Shanghai margin of the Sensing Technology Co., Ltd.

1 Scope

This standard specifies the general technical requirements, test methods, inspection rules for trace explosive detectors based on fluorescent polymer sensing technology, Logo, packaging, random technical documentation, transportation and storage.

This standard is applicable to hand-held and desktop trace explosive detectors based on fluorescent polymer sensing technology. It is designed, manufactured, the basic basis for the use of such instruments, based on fluorescent polymer sensing technology trace drug detector can refer to the use of this standard.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 191-2008 packaging and storage icon GB/T 2423.1 Environmental testing for electric and electronic products - Part 2. Test methods - Test A. Low temperature GB/T 2423.2

Environmental testing for electric and electronic products - Part 2. Test methods - Test B. High temperature GB/T 2423.3 Environmental testing for electric and electronic products - Part 2. Test methods - Test Cab. constant damp heat test GB/T 2423.5-1995 Environmental testing for electric and electronic products - Part 2. Test methods - Test Ea and guidance. Impact GB/T 2423.8-1995 Environmental testing for electric and electronic products - Part 2. Test methods - Test Ed. Free fall GB/T 2423.10-2008 Environmental testing for electric and electronic products - Part 2. Test methods - Test Fc. Vibration (sinusoidal) GB 4208-2008 enclosure protection class (IP code) GB/T 6587-2012 General specification for electronic measuring instruments Original batteries - Part 4. Safety requirements for lithium batteries GB 8897.4-2008 Micro - dose X - ray safety inspection equipment - Part 1. General technical requirements GB 15208.1-2005 GB/T 17799.1-1999 Electromagnetic compatibility - General standards - Immunity test in residential, commercial and light industrial environments GB 17799.3-2012 Electromagnetic compatibility - General standards for transmission in residential, commercial and light industrial environments

3 Terms and definitions

The following terms and definitions apply to this document.

Fluorescent polymer sensing technology thefluorescencepolymersensorytechnique Based on the material molecules on the fluorescence polymer fluorescence emission effect of the realization of the material molecular recognition technology.

Inspiratory sampling inhalationsamplecollection by direct inhalation of the surface of the object being tested or its surrounding air to collect explosives molecules to detect the way.

Wipe the sample wipewipecollection Wipe the sample carrier to wipe the surface of the article to be collected to collect its fine explosive particles for testing.