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

中华人民共和国国家标准

GB 15322.1-2003

The part replaces GB/T 15322-1994

Combustible gas detectors—

**Part 1: Point type detectors for 0 ~100% LEL
combustible gas**

可燃气体探测器

**第 1 部分:测量范围为 0~100%LEL 的点型可燃气体
探测器**

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Foreword

All technical requirements, test methods, markings, inspection rules and operating instructions in this document shall be mandatory. The GB 15322 *Combustible Gas Detectors* includes the following seven parts:

- Part 1: Point type detectors for 0~100% LEL combustible gas
- Part 2: Independent type detectors for 0~100% LEL combustible gas
- Part 3: Portable type detectors for 0~100% LEL combustible gas
- Part 4: Point type detectors for combustible gas of artificial gas
- Part 5: Independent type detectors for combustible gas of artificial gas
- Part 6: Portable type detectors for combustible gas of artificial gas
- Part 7: Linear type detector for combustible gas

This document is the first part of GB 15322. Based on many years of implementation of the GB 15322—1994 *Technical Requirements and Test Methods for Combustible Gas Detectors* and our country's status, the drafting panel establish the technical requirements of this part and perform relevant test and verification works during revision process, referring to the European Standard EN50054, EN50055, EN50056, EN 50057 and EN 50058 (1999 Version).

Annex A of this part is regarded as normative annex.

This part is proposed by the Ministry of Public Security of the People's Republic of China.

This part is under the jurisdiction of the Sixth Branch of National Firefighting Standardization Technology Committee.

The unit responsible for drafting this part: Shenyang Firefighting Science Research Institution of the Public Security Ministry

Units involved in drafting this part: Beijing Keliheng Safe Equipment Co., Ltd, Beijing Dianbo Science and Technology Development Co., Ltd, Fuyang Huaxin Electric Device Co., Ltd and Shenzhen Tean Electronics Co., Ltd.

Main drafters of this part: Ding Hongjun, Fei Chunxiang, Wang Yuxiang, Li Keting, Zhao Yingran, Qu Li, Guo Chunlei, Zhu Gang and Jiang Bo.

The release conditions of previous versions of the standards replaced by this part are as follows:——GB 15322—1994.

Combustible gas detectors Part 1: Point type detectors for 0~100% LEL combustible gas

1 Scope

This part of GB 15322 stipulates the definition, classification, technical requirement, test method, marking, inspection rule and operating instruction of the point type detectors for combustible gas. This part applies to the point type detectors for 0~100% LEL combustible gas (hereafter referred to as the “detector” installed and used by general industrial buildings and civil buildings. This part also applies to those special detectors installed in other environment with special requirement, otherwise specified by relevant standards separately.

2 Normative references

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 16838-2005 Environmental test methods and severities for fire electronic products

3 Definitions

This part adopts the following definitions.

3.1

Alarm setting value

Preset alarm density value of combustible gas.

3.2

Alarm value

Minimum alarm density value of combustible gas

3.3

(LEL) low explosive limit

Minimum explosive density value of combustible gas or vapor in the air

4 Classification

4.1 Based on anti-explosive requirements:



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