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

GB/Z 24979-2010

**Performance assessment of point type smoke and/or heat fire
detector**

点型感烟/感温火灾探测器性能评价

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Foreword

Point-type smoke/thermal detectors in special and complex applications under conditions of fire response, anti-interference ability and other comprehensive performance needs to be carried out Scientific evaluation to ensure the realization of fire safety goals. This guideline is for reference only. The suggestions and opinions on this technical document are directed to the standardization administration under the State Council Department reflected.

Appendix B, Appendix C, Appendix D of this guidance document are normative appendices, and Appendix A is informative appendix. This instructional technical document was submitted by the Ministry of Public Security of the People's Republic of China. The guidance of technical documents by the National Standardization Technical Committee fire detection and alarm sub-technical committee (SAC/TC113/SC6) Focused. This guidance is responsible for the drafting of technical documents. Ministry of Public Security Shenyang Institute of Fire. The guidance of technical documents to participate in the drafting unit. Liaoning Provincial Public Security Fire Corps, Xi'an Sheng Purcell Electronics Co., Ltd., Gulf Security Technology Limited. The main drafters of this guidance document are Dong Wenhui, Mei Zhibin, Gongpu, Wang Zhuofu, Song Zhen, Liu Yubao, Guan Dawei, Zhang Xiongfei, Wang Ai Zhong, noble guests. Performance Evaluation of Point Type Smoke/Temperature Detector

1 Scope

GB/Z 24979-2010 is the Chinese national standard on performance assessment of point type smoke and/or heat fire detector, in the field of environment and health protection, safety. The /Z suffix marks it as a guiding technical document: it does not prescribe requirements that can be certified against, but sets out the technique, the method or the state of the art that the standards bodies recommend following. It was issued on 9 August 2010 by the State Administration for Market Regulation; Standardization Administration of China. As a guiding technical document it carries no separate date of entry into force: it applies from publication. Classification: ICS 13.220.20, CCS C81. 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 guideline gives the evaluation process and evaluation method of performance evaluation of point-type smoke/thermal-fire detector. This instructional technical document is applicable to point-type smoke detectors, point-type temperature detectors, point-type smoke temperature composite fire detectors, It provides guidelines for the performance evaluation of point-type smoke/thermal-fire detectors. This guidance document is also applicable to the performance evaluation of point-type smoke, point-type temperature sensing and point-type smoke temperature composite fire detection algorithm.

2 Normative references

The following documents contain provisions which, through reference in this Guidance Document, become the provisions of this Guidance Note document. All dated Reference documents, all subsequent amendments (not including errata content), or revisions do not apply to this guidance document, however, drums Recipients of the agreement based on this guidance document are encouraged to study whether the latest versions of these documents are applicable. All undated references The latest version of this document applies to this guidance document.

GB 4208-2008 enclosure protection (IP code) (IEC 60529.2001, IDT)

GB 4715-2005 Point type smoke detectors

GB 4716-2005 point-type temperature and fire detectors

GB/T 4718-2006 fire alarm equipment terminology

3 Terms and definitions

GB/T 4718-2006 established and the following terms and definitions apply to the guidance of technical documents.

3.1 Subjective assessment method Evaluators for the evaluation of fire detectors and technical documents, based on actual work experience, in accordance with certain evaluation procedures, all or Part of the evaluation index to make subjective judgments and give the corresponding assessment of the conclusions of the method.

3.2 Objective assessment method The appraiser evaluates the specific evaluation index of the fire detector to be evaluated through specific tests, simulation tests or simulation calculations Methods.

3.3 Slow development fire slowly developed fire A fire that develops slowly at a rate of smoke

rise greater than $A/4$ per hour (A is the initial response threshold for detector non-compensation).

4.1 General

4.1.1 The point-type smoke/thermal-fire detectors involved in the evaluation shall first meet the requirements of this Chapter and then evaluate them in accordance with the provisions of Chapter 5.

4.1.2 In addition to the evaluation activities carried out in the product development process, the point-type smoke/thermal-fire detector shall be passed before the performance evaluation National Product Quality Supervision and Inspection.