

ICS 13.220.20
CCS C 81



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

GB 22134-2008

**Compatibility requirements of automatic fire alarm system
components**

火灾自动报警系统组件兼容性要求

(English Translation)

Issued on: December 30, 2008

Implemented on: February 1, 2010

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

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Foreword

This standard in Chapters 4 and 5 are mandatory, the rest are recommended.

This Standard corresponds to ISO 7240-13:2005 "Fire detection and alarm systems - Part 13. Compatibility Evaluation System Components" (English Edition), the degree of consistency with ISO 7240-13 non-equivalent.

This standard Annex A, Annex B and Annex C is normative.

The standard proposed by the People's Republic of China Ministry of Public Security.

2 Normative references

The provisions of the following documents cited by this standard and become provisions of this standard. For dated reference documents, all later Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to agreements based on this standard Whether the latest versions of these documents. For undated references, the latest version applies to this standard.

GB 4717 fire alarm controller

GB 14287.1 electrical fire control system - Part 1.

GB 16806 fire control system

GB 16808 combustible gas alarm controller

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.4

Ability to work a second component to the first class type assembly

3.3

The first component ability to work with the first type assembly

3.1

National standards or specifications means to protect life and property security features have.

3.2 National standard or specification does not require

the device to protect life and property security features have.

4.1 General

Fire alarm system (system functionality see Appendix A) component compatibility and connectivity should first meet the requirements of this section, and then press section Chapter 5 require tests and meet the test requirements. Automatic fire alarm system components should also Chapter 6 may be connected and compatibility Of assessment and evaluation meet the test requirements.

4.2 Compatibility Requirements

4.2.1

Automatic fire alarm system and connected devices (or members) of the dividing component B should meet the requirements of the Appendix. The first component should be By the National Fire product quality supervision and inspection agency inspection of product. A second operational components should not affect the fire alarm system normal work.

4.2.2

Automatic fire alarm system independent (region) fire alarm controller, combustible gas alarm controller, electrical fire monitoring equipment

Fire detectors connected to the assembly, manually fire the trigger device, combustible gas detectors, electric fire detectors, fire alarm devices, etc. After, respectively, should satisfy the following requirements.

a) Independent (area) shall satisfy the fire alarm controller in GB 4717 fire alarm, fire alarm

control function, fault alarm Function, self-test function, the software control function, the power requirements of function and other basic functions;

b) the combustible gas alarm controller should meet the requirements of GB 16808 basic functions;

c) electrical fire monitoring equipment should meet the requirements of the basic functions GB 14287.1;

Various kinds of component d) and independent (region) to be connected to the fire alarm controller satisfy basic performance requirements of the relevant standards, such as the assembly of Independent (region) is provided which detects the fire alarm controller operation or performance parameters, related to the corresponding standard component should meet Claim;

e) the combustible gas with various components connected to the alarm controller should satisfy the corresponding requirements of basic performance criteria, such as the assembly by a gas The controller body is provided which detects the alarm or operational performance parameters, the assembly also to meet the requirements of the relevant standards;

f) with various components connected to electrical fire monitoring equipment shall meet the corresponding requirements of basic performance criteria, such as the assembly of electrical fires Monitoring device is provided which detects the operation parameters or properties, the component also to meet the requirements of the relevant standards.

Fire extinguishing gas interlocking controller and the controller, Fire Control 4.2.3 automatic fire alarm system, emergency fire fighting equipment Power, fire emergency radio equipment, fire telephone transmission equipment, the fire control center graph display apparatus, module, fire electric apparatus, the fire extinction After plug connection components such as buttons, respectively, should satisfy the following requirements.

a) the controller should meet fire linkage control function in GB 16806 fire linkage controller, fault alarm function, self-test function, Displaying information query function, the power requirements of function and other basic functions;

Gas fire controller b) a controller connected to the fire linkage, Fire Control, fire emergency power equipment, fire emergency Broadcast equipment, fire telephone transmission equipment, the fire control center graph display apparatus, module, electrical devices fire hydrant button And other components should meet basic performance requirements of GB 16806 of.

4.2.4

automatic fire alarm system in the area of fire alarm controller, combustible gas alarm controller, electrical fire monitoring equipment, fire-linked After the movable fire alarm controller and centralized controller is connected, respectively, should satisfy the following

requirements.

- a) zone fire alarm controller shall send to the centralized controller fire alarm fire alarm, fire alarm control, fault alarm, from Complete information and the subject of various alarm supervision may have a shield, latency, etc, and be able to receive, process control centralized fire alarm RELATED instruction;
- b) the combustible gas alarm controller shall send an alarm to the fire alarm controller concentrated, failure information;
- c) electrical fire monitoring equipment should be able to send an alarm to the fire alarm controller concentrated, failure information;
- d) the controller should transmit the fire linkage linkage control information to centralized fire alarm controller;
- e) centralized fire alarm controller should be able to receive and display a), b), c), information d) and into the respective predetermined state, b), c), d) regulation Displaying the specific information does not affect a) displaying predetermined information, b), c), d) the same information is displayed in a predetermined area should have the difference;
- f) centralized fire alarm control alarm shall be fire zone controller sends a control instruction;
- g) concentrate the fire alarm controller shall transmit information to the fire alarm controller fire linkage;
- h) fire linkage controller should be able to receive the concentrated fire alarm fire alarm control information;
- i) concentration in the region of the fire alarm controller fire alarm controller connected thereto, combustible gas alarm controller, electric fire Apparatus, the transmission line ground occurs between fire linkage controller circuit, short circuit, and can affect the function when the fault condition and enters significantly Site shown.

4.3 Anti-electromagnetic interference requirements

Resistance to electromagnetic interference of various types of components that make up the fire alarm system shall comply with the appropriate standard.

4.4.1 General

Automatic fire alarm system file should contain the compatibility assessment and evaluation can be connected to the desired file.