

ICS 13.220.10

CCS C 81



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

GB 16281-2024

Replacing GB 16281-2010

Fire emergency receiving and dispatching system

消防接处警系统

Issued on: November 28, 2024

Implemented on: December 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Abbreviations	1
5 Technical Requirements	2
5.1 Basic Requirements	2
5.2 Fire Command Center Application Software Functional Requirements	2
5.3 Fire rescue team station application software functional requirements	5
5.4 Application software information management requirements	6
5.5 Performance requirements	7
5.6 Reliability Requirements	7
5.7 Queue Scheduler Requirements	7
5.8 Requirements for linkage control devices	8
6 Application software conformity evaluation	9
7 Queue scheduling machine test method	9
7.1 General	9
7.2 Basic requirements test	9
7.3 Functional requirements test	9
7.4 Performance requirements test	10
8 Queue scheduling machine inspection rules	10
8.1 Factory Inspection	10
8.2 Type inspection	10
9 Logo	10
9.2 Quality inspection mark	10
59 Appendix C (Normative) Interface parameter representation format requirements	
60 C.1 Data Types 60 C.2 Representation Format 60 C.3 Data object representation	
format	61

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document

replaces GB 16281-2010 "Fire Alarm Acceptance System". Compared with GB 16281-2010, except for structural adjustments and editorial changes, In addition, the main technical changes are as follows:

- Changed the term "fire alarm reception system" to "fire alarm reception and handling system" (see 3.1, 3.1 of the.2010 edition);
- Added the term and definition of "fire scene document" (see 3.2);
- Deleted the test requirements for climate environment, mechanical environment, electromagnetic compatibility, etc. (see 4.1.2, 4.1.3, 4.1.4 of the.2010 edition);
- Changed the basic requirements (see 5.1, 4.2.1 of the.2010 edition);
- Changed the relevant functional requirements, mainly adding voice recognition, intelligent dispatch and other functions (see 5.2.2, 5.2.3,.2010 edition 4.2.2);
- Changed the information management requirements (see 5.4.1, 5.4.2, 4.2.3 of the.2010 edition);
- Changed the interface requirements (see 5.4.3, 4.2.2.4 of the.2010 edition);

1 Scope

GB 16281 governs the system behind the fire emergency number: the equipment and software that takes the call, locates the incident, selects and dispatches the stations, tracks the appliances and records everything for the subsequent inquiry. It sets the functional requirements for call handling, dispatch, communication with the units and with other emergency services, the interfaces to the alarm receiving centres, the performance and reliability requirements including the behaviour under mass call load, the recording and playback, and the test methods and inspection rules. At 35,500 words it is one of the larger fire standards in the catalogue. Issued on 28 November 2024, in force since 1 December 2025, replacing GB 16281-2010. 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 edition it replaces are taken from there. The clause text, the tables and the numeric limits are not reproduced on this page - they are in the document itself, which is delivered in full in English translation.

This document defines the terms and definitions of the fire alarm reception and handling system, and specifies the technical requirements, application software conformity

evaluation, queue dispatch mechanism, Test rules and flags describe the test method of the queue scheduling machine. This document applies to the design, development and inspection of fire alarm response systems used in the construction of national comprehensive fire rescue teams.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 12978 Inspection Rules for Fire Protection Electronic Products

GB/T 16838 Environmental test methods and severity levels for fire protection electronic products

GB/T 25000.51-2016 Systems and Software Engineering System and Software Quality Requirements and Evaluation (SQuaRE) Part 51. Quality requirements and testing details for ready-to-use software products (RUSP)

GB/T 38254 Fire alarm acceptance linkage control device

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Deployed in the fire command center and fire rescue team station, it realizes the functions of receiving and identifying alarms and dispatching forces. system.

Note. The system mainly includes application software for business management, queue dispatching machine and linkage control device, etc. The queue dispatching machine usually adopts special hardware or Different forms of software, consisting of one or more devices.

3.2 Fire emergency record Disaster scene record The temporal and spatial information of the police situation is recorded throughout the entire process in the form of multimedia and other data.

Note. Fire scene documents mainly include on-site feedback information (trapped personnel information, commander information, weather information, on-site closure information, protection and evacuation information etc.), information on changes in force status, information on changes in disaster status, information on superior and subordinate commands, information on requests for reinforcement, on-site photos and audio and video, etc.

4 Abbreviations

The following abbreviations apply to this document.

chinastandards.org - PREVIEW