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

GB/T 28888-2026

Replacing GB/T 28888-2012

**Technical requirements for gas monitoring in sewers and septic
tanks**

下水道及化粪池气体监测技术要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 28888-2012 "Technical Requirements for Gas Monitoring in Sewers and Septic Tanks" and is consistent with GB/T 28888-2012. Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope has been changed (see Chapter 1, Chapter 1 of the.2012 edition);
- b) Six terms have been changed, including monitoring terminal, monitoring management platform, monitoring system, alarm setpoint, display value, and response time (T90). Its definition (see 3.2, 3.3, 3.1, 3.5, 3.6, 3.10, and 3.1, 3.4, 3.5, 3.7, 3.10, 3.14 in the.2012 edition);
- c) Added minimum response value, zero-point gas, indication error, alarm error, lower explosive limit, occupational exposure limit, toxic gases, and flammable gases. Nine terms, including gas and non-repudiation treatment, and their definitions (see 3.4, 3.7~3.9, 3.11~3.15);
- d) Eight items were removed, including collection point, monitoring area, sampling interval, alarm action value, early warning setting value, zero point, basic error, and calibration point. Terms and their definitions (see sections 3.2, 3.3, 3.6, 3.8, 3.9, 3.11, 3.12, and 3.13 of the.2012 edition);
- e) The monitoring system architecture was changed (see Chapter 5, Chapter 5 of the.2012 edition);
- f) The basic requirements, system management and functions, security requirements, and communication requirements in the technical requirements for the monitoring and

management platform have been changed (see 6.1.1). 6.1.2, 6.1.4, 6.1.5 (and 6.1.1, 6.1.2, 6.1.5,

6.1.7 in the.2012 edition);

g) The operating environment requirements for the monitoring and management platform have been added (see 6.1.3), and the hardware requirements and network response speed have been removed. Degree requirements, stability requirements, and interface communication protocols (see sections 6.1.3, 6.1.4, and

6.1.6 in the.2012 edition);

h) The technical requirements for the monitoring terminal have been revised, including general requirements, operating conditions, power supply, appearance and structural requirements, and operational stability. Performance, response time (T90), alarm function, backup power supply operating time, insulation withstand voltage performance, operating temperature test, constant humidity and heat test Inspection and explosion-proof requirements (see 6.2.1~6.2.4, 6.2.9~6.2.15, 6.2.17, and 6.2.1, 6.2.2, 6.2.5,

1 Scope

GB/T 28888-2026 is the Chinese national standard covering monitoring the atmosphere of a sewer before anyone goes in - hydrogen sulfide, methane, oxygen deficiency and carbon monoxide, the instruments and their calibration, the sampling from the surface and the criteria for entry. Confined space deaths in sewers, usually of the man who went in to pull out the first casualty, are the reason this standard exists. It replaces GB/T 28888-2012. It was issued on 28 January 2026 and has been in force since 1 August 2026, replacing GB/T 28888-2012. The document is under the responsibility of the Ministry of Housing and Urban-Rural Development. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the types of gases to be monitored in sewers and septic tanks, the structure of the monitoring system, requirements, verification and testing methods, and the testing of monitoring terminals. Verification rules. This document applies to the monitoring of toxic and flammable gases in sewers and septic tanks. Gas monitoring at drainage pumping stations and sewage treatment plants should refer to [the relevant documentation/reference]. implement.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this

document; for undated references, the latest version (including all amendments) applies.
This document.

GB/T 2887-2011 General Specifications for Computer Venues

GB/T 3836.1-2021 Explosive Atmospheres - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 monitoring system It consists of a monitoring and management platform and monitoring terminals, and has software and hardware functions such as data acquisition, transmission, processing, system alarm, and control. Component assembly.

3.2 monitoring terminal This system monitors gas concentrations and the operational status of terminal equipment at monitoring points, uploads the data to a monitoring management platform, and can also receive... Physical devices at monitoring points that receive instructions from the monitoring and management platform and perform corresponding operations accordingly.

4 Equipment Protected by Intrinsic Safety "i"

GB/T 4208-2017 Degrees of protection provided by enclosures (IP code)

GB/T 9361-2011 Safety Requirements for Computer Sites

GB/T 10111-2008 Random Number Generation and Its Application in Product Quality Sampling Inspection

GB 12358-2024 General Technical Requirements for Gas Detection and Alarm Instruments in the Workplace

GB 15322.1-2019 Combustible gas detectors - Part