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

CJ/T 252-2011

Replacing CJ/T 252-2007

**Technical requirements of the water quality and flowrate online
monitoring system for urban drainage
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces CJ/T 252-2007 "urban drainage automatic monitoring system technical requirements." this standard is CJ/T 252-2007 "Urban Drainage Automatic Monitoring System Technical Requirements" revision, compared with CJ/T 252-2007 the main technical changes are as follows.

- The original standard name "urban drainage automatic monitoring system technical requirements" be amended to "urban drainage water quality online monitoring system technology Claim";
- Modify the composition and function of urban drainage water quality online monitoring system (see 1 and 4,2007 version 1 and 4);
- Added "monitoring points", "monitoring base station", "automatic analyzer", "mean time between failures continuous operation" and "data validity" Definition (see 3);
- Remove the definition of "key drainage households" (see 2007 version 3.1.12);
- Removed the terms and definitions of the code (see 2007 version 3.2);
- Increasing the requirements of sampling units (see 6);
- Increasing the requirements of water sample distribution unit (see 7);
- Modify the water quality and quantity detection unit requirements (see 8,2007 version 4.6.2);
- Removed all kinds of on-site monitoring station instrument configuration (see 2007

version 5.2);

--- Removed the on-line monitoring equipment combustible gas, harmful gas monitor (see 2007 version 6.5.13);

--- Modify the data acquisition storage and transmission unit requirements (see 9, 2007 version 4.5);

--- Modify the system management unit requirements (see 10, 2007 version 4.3 and 4.4);

--- Increased system auxiliary unit requirements (see 11);

--- Increasing the system operating environment requirements (see 12);

--- Modify the quality control and quality assurance requirements (see 13, 2007 edition of 7).

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Water Supply and Drainage Products Standardization Technical Committee.

This standard was drafted. Guangzhou Urban Drainage Monitoring Station, Nanjing Urban Drainage Monitoring Station, Kunming Urban Drainage Monitoring Station, Hunan force Hop Technology Development Co., Ltd., Guangzhou secondary water supply technology consulting service center, Shimadzu International Trading (Shanghai) Co., Ltd., Beijing city Drainage Monitoring Station, Tianjin Urban Drainage Monitoring Station, Qiqihar Urban Drainage Monitoring Station, Qingdao Urban Drainage Monitoring Station, Dongguan City, Water Quality Monitoring Center, Zhuhai Water Quality Monitoring Center, Guangzhou Municipal Wastewater Treatment Co., Ltd., Guangzhou Jingshui Water Co., Ltd., Guangdong Tianrui Branch Technology Co., Ltd.

1 Scope

This standard specifies the composition and function of urban drainage water quality online monitoring system, the overall system requirements, water sampling unit, water Sample distribution unit, water quality and quantity detection unit, data acquisition and storage and transmission unit, system management unit, system auxiliary unit, system operation ring Environment and quality control and quality assurance requirements.

This standard applies to urban drainage water quality online monitoring system design, equipment selection, installation, commissioning and so on.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 6920 Determination of water quality - Glass electrode method Water quality - Determination of total phosphorus - Ammonium molybdate spectrophotometric method GB 11894 Water quality - Determination of total nitrogen - Basic potassium persulfate digestion - UV spectrophotometry Water quality - Determination of chemical oxygen demand - Dichromate method GB/T 17214.1 Industrial process measurement and control device working conditions - Part 1. Climate GB 50054 low-voltage power distribution design specifications GB 50057 lightning protection design specifications GB 50223 Building seismic classification standards GB 50343 lightning protection technical specifications of building electronic information system CJ/T 3008.5 Urban Drainage Weir Tank Weights Standard triangular profile weir HJ/T 15 Environmental Protection Products Technical Requirements Ultrasonic open channel sewage flow meter HJ/T 70 Determination of high - chlorine wastewater chemical oxygen demand chlorine gas calibration method HJ/T 96 pH automatic water quality analyzer technical requirements HJ/T 101 ammonia nitrogen automatic water quality analyzer technical requirements HJ/T 102 total nitrogen water quality automatic analyzer technical requirements HJ/T 103 total phosphorus automatic water quality analyzer technical requirements HJ/T 104 total organic carbon (TOC) automatic water quality analyzer technical requirements HJ/T 191 UV (UV) absorption water quality automatic on-line monitoring technical requirements HJ/T 212 pollution source online automatic monitoring (monitoring) system data transmission standards Technical Specification for Installation of HJ/T 353 Water Pollution Source Online Monitoring System HJ/T 354 water pollution source on-line monitoring system acceptance technical specifications HJ/T 355 water pollution source on-line monitoring system operation and evaluation of technical specifications Technical Specification for Data Validation of Online Monitoring System for Water Pollution Sources HJ/T 372 water quality automatic sampler technical requirements and testing methods HJ/T 377 Environmental Protection Product Technical Requirements Chemical Oxygen Demand (CODCr) Water Quality Online Automated Monitor HJ501 - Determination of total organic carbon in water - Burning oxidation - Non-dispersive infrared absorption method