

ICS 07.060

CCS N92



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

GB/T 13972-2010

Replacing GB/T 13972-1992

**General technical specifications for oceanographic
hydrological instruments**

海洋水文仪器通用技术条件

Issued on: September 26, 2010

Implemented on: February 1, 2011

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

Table of Contents

Foreword

1 Scope

About this edition

Classification and status

How a Chinese national standard is set out

About this English translation

Foreword

This standard replaces GB/T 13972-1992 "General technical conditions for marine hydrological observation equipment". This standard and GB/T 13972-1992 compared to the main changes are as follows: - the terms and definitions of the reference document adjusted to HY/T 008-1992 "ocean instrument terminology", an increase of 12 instrument characteristics of the term (See Chapter 3); - Reference documents for instrument classification and product naming are adjusted to HY/T 042 (see Chapter 4);

--- The technical requirements highlight the characteristics of the product itself, mainly reflected in. 1) Adjust the classification of technical requirements (see Chapter 5) for GB/T 13972-1992; 2) the removal of the economic requirements, weakened the process requirements; 3) increased the content of field trials; 4) Increased measurement characteristics (see Chapter 5);

--- the original standard "work characteristics and its representation", "verification method" related content has been adjusted, of which. 1) to cancel GB/T 13972-1992 "working characteristics and its representation" chapter, the relevant content in the "terms and definitions", "General technical requirements" and "test methods" (see Chapters 3, 5 and 6); 2) change the "working characteristics" to "metrological characteristics" and simplify the specific items (see Chapters 5 and 6); 3) Increased accuracy of technical requirements and methods of assessment (see 5.2.1, 6.2.2); 4) "Impact change performance" is modified to "working conditions" (see 6.2.10); - Requirements for electrical safety and electromagnetic compatibility requirements (see 5.3,

5.6 and 6.3, 6.6);

--- delete the GB/T 13972-1992 reliability test method of the specific steps, quoted GB/T 11463-1989 "electronic test Reliability test "as a reliability requirement (see

5.5 and 6.5); - Added technical requirements such as "interface and communication", "data recording and display", "working software" (see 5.8,

5.9 and 5.10); - to enrich and refine the provisions of the inspection rules, especially in the type of inspection part of the increase in the inspection time, sampling rules, (See Chapter 7). This standard is proposed by the State Oceanic Administration. This standard is under the jurisdiction of the National Marine Standardization Technical Committee (SAC/TC283). The drafting unit of this standard. National Ocean Standard Metrology Center, National Marine Technology Center. The main drafters of this standard. Pang Yongchao, Ma Zhigang, Zhao Shiming, Lian Shuangxi, Yang Zheling. This standard replaced the previous version of the standard release.

--- GB/T 13972-1992. General technical conditions for marine hydrological instruments

1 Scope

GB/T 13972-2010 is the Chinese national standard on general technical specifications for oceanographic hydrological instruments, in the field of natural and applied sciences. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 26 September 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 February 2011. Classification: ICS 07.060, CCS N92. 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 standard specifies the classification and type naming of marine hydrological instruments, general technical requirements, test methods, inspection rules, and signs, packages Equipment, transportation and storage requirements. This standard applies to the development of marine hydrological instruments, production, use and related product standards.

2 Normative reference documents

The terms of the following documents are hereby incorporated by reference into this standard. Whichever is the date of the reference file, which is followed by all (Excluding corrigenda) or revisions do not apply to this standard, however, encourage the parties to reach an agreement under this standard Whether you can use the latest version of these files. For undated references, the latest edition applies to this standard.

GB 190 Dangerous Goods Packaging Mark

GB/T 191 packaging and storage icon

GB/T 3100 International System of Units and Their Applications

GB/T 3101 General principles of quantity, unit and symbol

GB/T 3102 (all parts) quantities and units Test method for lightning protection of electronic equipment GB/T

GB 4793.1-2007 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1. General requirements Reliability test of electronic measuring instruments

GB/T 11463-1989 Maritime survey - Specification - Part 2. Marine hydrological observations

GB/T 12763.2-2007 General technical requirements for packaging of electromechanical products

GB/T 13384-2008 Code for observation of seaside GB/T 14914-2006

GB/T 17626.3-2006 Electromagnetic compatibility test and measurement technology Radio frequency electromagnetic radiation immunity test

GB/T 17626.6-2008 Electromagnetic compatibility test and measurement techniques Radio frequency field sensing conducted disturbance disturbance immunity

GB/T 17626.11-2008 Electromagnetic compatibility test and measurement techniques Immunity to voltage sags, short interruptions and voltage variations test Electromagnetic compatibility - Testing and measurement techniques - Voltage fluctuation immunity test GB/T 17626.14-2005

GB/T 17626.29-2006 Electromagnetic compatibility test and measurement technology DC power supply input port voltage sag, short interrupt and Voltage immunity test Code for weather forecasting of marine marine hydrometeorology