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

GB/T 10319-2008

**General specifications for marine pneumatic measurement and
control instruments**

船舶用气动测量和控制仪表 通用技术条件

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Foreword

This standard revises and replaces the GB/T 10319-1988 "marine pneumatic measuring and control instruments General technical requirements." This standard and GB/T 10319-1988 main differences are as follows:

--- Updated normative references.

a) with GB/T 17214.2-2005 "industrial process measurement and control equipment operating conditions - Part 2. Power" instead GB 4830 Industrial automation instrument air pressure range and quality;

b) with the GB/T 15464-1995 "instrument packaging technology" instead ZBY003;

c) with the GB/T 17212-1998 "industrial process measurement and control - Terms and definitions" instead ZBY247;

d) with JB/T 9253-1999 "General Provisions of industrial automation instruments scale" instead ZBY123;

e) by JB T 9329-1999 "instrument transport, transportation, storage and basic environmental conditions and test methods"/replaced ZBY002.

--- Under the original standard table

7 Notes 1 and 2 included in the standard as a table Note Table 7, note 3 reclassified under the provisions of this standard 4.6.9;

--- Table 8, the wavelength of visible light original standard $0.40\mu\text{m} \sim 0.76\mu\text{m}$ corrected to $0.40\mu\text{m} \sim 0.78\mu\text{m}$;

--- Table 9, referring to China Classification Society GD01-2006, relative humidity, atmospheric conditions in general to 30% to 90%;

--- Terms of salt spray test method (5.5.4) to do a re-arranging, and with reference to GB/T 2423.17 and GB/T 2423.18 supplement A predetermined initial detection and pretreatment;

--- Modify the presentation of Chapter

6 Inspection rules;

1 Scope

GB/T 10319-2008 is the Chinese national standard on general specifications for marine pneumatic measurement and control instruments, in the field of manufacturing engineering. 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 28 July 2008 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 2009. Classification: ICS 25.040.40, CCS N10. 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 marine pneumatic measuring and control instruments (hereinafter referred to as marine pneumatic) requirements, test methods, inspection rules, Logo and packaging requirements. This standard applies to all kinds of ships and marine engineering using pneumatic measuring and control instruments. This standard applies to ships with pneumatic instrument can be divided according to their functions.

a) instrumentation (detected temperature, pressure, level, flow, mechanical variables such as the amount of used instruments);

- b) control instrument (position controller, continuous controller, etc.);
- c) actuators (control valves, actuators, etc.);
- d) display instruments (recorder, indicator, etc.);
- e) other suitable instrument. For different types of product-specific requirements, the standards were not provided, it shall comply with the respective product standards or technical conditions. In tests specified in this standard, if requested exemption of certain items should be agreed between the manufacturer and the user, and with the consent ship inspection department.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2422 electric and electronic products environmental testing terminology (GB/T 2422-1995, eqv IEC 60068-5-2.1990)

GB/T 2423.10 Environmental testing for electric and electronic products Part II. Test methods Test Fc. Vibration (sinusoidal) (GB/T 2423.10-2008, IEC 60068-2-6.1995, IDT)

GB/T 2423.16 Environmental testing for electric and electronic products Part II. Tests - Test J and guidance. Mould growth (GB/T 2423.16-1999, idt IEC 60068-2-10.1998)

GB/T 2423.24 Environmental testing for electric and electronic products Part II. Test methods - Test Sa. on analogue terrestrial solar radiation (GB/T 2423.24-1995, idt IEC 60068-2-5. 1975)

GB 4208 housing protection (IP Code) (GB 4208-2008, IEC 60529.2001, IDT)

GB/T 8355 General technical conditions for ship electric measuring and control instruments

GB/T 15464 instrumentation packaging technology

GB/T 17212 industrial engineering measurement and control - Terms and definitions (GB/T 17212-1998, idt IEC 60902. 1987)

GB/T 17214.2 industrial process measurement and control equipment operating conditions - Part 2. Power (GB/T 17214.2-2005,

IEC 60654-2. 1979, IDT) The general provisions of

JB/T 9253 Industrial Automation Instrumentation scale

JB/T 9329 Instrumentation transport, transportation, storage and basic environmental

conditions and test methods

3 Terms and Definitions

GB/T 2422, GB/T 8355 and GB/T 17212 and established the following terms and definitions apply to this standard.

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