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

GB/T 11826.2-2012

Current meter and flow meter - Part 2: Ultrasonic current meter

流速流量仪器 第2部分：声学流速仪

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Foreword

GB/T 11826 "flow velocity instrument" is divided into eight sections.

- Part 1. Rotor Flow Meter;
- Part 2. Acoustic current meter;
- Part 3. Radio Flow Meter;
- Part 4. micro-rotor current meter;
- Part 5. electromagnetic flow meter;
- Part 6. velocity flow meter;
- Part 7. a cross-sectional flow meter;
- Part 8. Optical flow meter. This is Part 2 GB/T 11826 in. Rules in this section in accordance with GB/T 1.1-2009 given draft. This section proposed by the People's Republic of China Ministry of Water Resources. This part of the National Technical Committee of Standardization Technical Committee hydrological hydrological instruments (SAC/TC119/SC1) centralized. This part mainly drafted by: MWR hydrological instruments and geotechnical engineering Instrument Quality Supervision and Testing Center, Nanjing Auto Hydrological The Institute, Ningbo Beilun Cup China Hydraulic Equipment Co., Ltd. Participated in the drafting of this section. the country's industrial production permit office hydrological instruments and geotechnical engineering Instrument Examination Department. The main drafters of this section. Chen Yu, Shi Minghua, Li Wei, Wang Jianwen. Velocity flow instrumentation - Part 2. Acoustic Current Meter

1 Scope

GB/T 11826.2-2012 is the Chinese national standard on current meter and flow meter - part 2: ultrasonic current meter, 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 3 September 2012 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 2013. Classification: ICS 07.060, CCS N93. 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 section GB/T 11826 regulations ultrasonic acoustic pulse propagation velocity of acoustic transit-time flow meter product classifications, requirements, test Method, detection rules and signs, instructions, packaging, transportation, storage and so on. This section applies to conduct flow measurement in open channel ultrasonic acoustic pulse propagation time difference method acoustic velocity meter, NA Doppler shift Technology acoustic velocity meter.

2 Normative references

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

GB/T 191 Packing Pictorial marking

GB/T 9359-2001 hydrological instruments environmental testing conditions and methods

GB/T 9969 General Industrial Product Manual

GB/T 18185 hydrological instruments reliability technical requirements

GB/T 18522.6 hydrologic instruments - Part 6. inspection rules and signs, packaging, transportation, storage and operation manual

GB/T 19677-2005 Terms and symbols for hydrological Instruments

3 Terms and Definitions

GB/T 19677-2005 defined and the following terms and definitions apply to this document.

3.1 Channel acousticpath When the sound wave propagation in the medium directional effective coverage area.

4 Categories and Structure

4.1 Categories Acoustic pulse propagation time difference method of acoustic flow meter into a single channel, cross-channel response, multi-layer, reflective work of acoustic transit-time flow Speed \u200b\u200binstrument.

4.2 structure and composition

4.2.1 Mono works of acoustic transit-time flow meter Riverside install a pair of ultrasonic transducers, signal cable between the two sides must be linked to the main shore installation of measuring devices.

4.2.2 Cross-channel mode of operation of acoustic transit-time flow meter Riverside setting two intersecting channels, install two sets of four transducers, two channels measured average velocity and the main flow of the main shore