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CCS N12



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

GB/T 28848-2012

Intelligent gas flow meter

智能气体流量计

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbol	3
6 Constituting 5.1	6
5.2 Type	7
5.3 Basic parameters	7
5.4 Connection 11	11
5.6 Naming Rule 11 6 requires	12
6.1 Measurement Performance Requirements	12
6.2 Functional requirements	14
6.3 Effect of Amount of	16
6.4 Security features	19
6.5 Other Requirements 20 7 test device	20
7.1 flow device	20
7.2 ancillary equipment requirements	21
7.3 Traceability 21	8
8.1 Test conditions	21
8.2 Measurement Performance Test	22
8.3 Functional Check	25
8.4 Effect of the amount of test	26
8.5 Safety Performance Test 30	31
8.6 Other tests 9 inspection rules	31
9.1 factory inspection 31	33
9.2 Type inspection 10 signs, packaging, transportation, storage and use instructions 33	33
10.1 Product Mark	34
10.3 Storage	34
10.4 Transport 34	34
53 References	55

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard proposed by China Machinery Industry Federation. This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized. This standard is drafted by: Chongqing Institute of Metrology and Quality Inspection. Participated in the drafting of this standard. day letter Instrument Group Co., Ltd., Zhejiang Cangnan Instrument Factory, Itron Instrument System (Chongqing) Co., Ltd., Sea ELSTER-AMCO Gas Equipment Co., Ltd., Chongqing Instrument Co., Ltd. Bao Yuan Sen Qingdao Automation Instrumentation Co., Ltd., Yuyao Yinhuai Traffic Instrument Co., Ltd., Chongqing Fortress Gas Equipment Co., Ltd. Tianjin billion ring Automation Instrumentation Technology Co., Ltd., China Petroleum Southwest Branch, Beijing Institute of Metrology detection, Liaoning Provincial Institute of Metrology and China Gas Holdings Limited. The main drafters of this standard. Wu Mingqing, Liao new, the word Gong, Ye Peng, Yinxing Jing, Huang Po group, Xie Zhonghua, Zhu Haiying, Dou Jianjun, Zhu Jiashun, Xiong Tao, Liu Zhonghai, Yang Jing, Liu Fang, Zhiqiang, Liwan Jun. Intelligent Gas Flow Meter

1 Scope

GB/T 28848-2012 is the national standard for the gas meter that corrects its own readings. An ordinary meter counts the volume that passes through it, and volume is a poor proxy for the quantity anyone is actually buying: the same cubic metre of gas holds different amounts of energy at different temperatures and pressures. An intelligent meter carries the sensors and the electronics to make that correction as it measures, which is why it is the instrument on which custody transfer increasingly depends and why what it is allowed to do needs writing down. The standard covers meters measuring gas flow in a closed conduit that carry an electronic correction device, and sets out the terminology and symbols, the structure of the instrument, the requirements it must meet, the test equipment and test methods, the inspection rules, and the provisions for marking, packaging, transport and storage. Prepaid meters with a control device are outside its scope. It sits under ICS 17.120.10, flow measurement, and CCS N12, and it is written for meter manufacturers, gas utilities and the metrology institutes that verify what a meter reports before it is allowed to bill a customer.

This standard specifies the smart gas meter (hereinafter referred to as meter) terminology, symbols, structure, requirements, test equipment, test methods, inspection Inspection rules, marking, packaging, transportation and storage. This standard applies to the measurement of gas flow in closed conduits and having an electronic meter correction device. This standard does not apply to pre-paid meter control device.

2 Normative references

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

GB/T 191 Packaging - Pictorial signs

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold

GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat

GB/T 2423.3 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test

GB/T 2423.4 Environmental testing for electric and electronic products Part 2. Test methods - Test Db. Damp heat (12h 12h cycle)

GB/T 2423.7 Environmental testing for electric and electronic products Part 2. Test Ec and guidance. Drop and topple (mainly For equipment - type specimens)

GB/T 2423.43 Environmental testing for electric and electronic products - Part 2. vibration, impact and similar dynamic tests like Test Method Installation products

GB/T 2423.56 Environmental testing for electric and electronic products Part 2. Test methods - Test Fh. Broadband random vibration (digital control Ltd.) and guidance

GB/T 2624 (all parts) with a differential pressure measuring device mounted to round pipe full pipe fluid flow

GB 3836.1 explosive atmospheres - Part 1. General requirements for equipment

GB 3836.2 explosive atmospheres - Part 2. the flameproof enclosure "d" protection equipment

GB 3836.4 explosive atmospheres - Part 4. the intrinsically safe "i" protection equipment

GB 4208 housing protection (IP Code)