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**Program of Pattern Evaluation of Thermal Mass Gas Flowmeters
(English Translation)**

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Introduction

According to the type of hot gas mass flow meter evaluation work needs to develop this type of evaluation outline.

Follow the scientific, operational principles of the development, according to JJF 1015-2014 "measuring instrument type evaluation of general rules Fan ", JJF 1016-2014" measuring instrument type evaluation outline preparation guidelines "requirements, according to GB/T 2423.1 "Environmental testing of electric and electronic products Part 2 Test method test A low temperature", GB/T 2423.2 "Electrician Electronic products - Environmental testing - Part 2. Test methods - Test B - High temperature, GB/T 2423.3, "Electrical and electronic Product Environmental Test Part 2 Test Method Test Cab. Constant Damp Heat Test ", GB/T 2423.10" Electrotechnical Environmental testing of electronic products - Part 2. Test methods - Test Fc. Vibration (sinusoidal), GB/T 17626.2 "Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test", GB/T 17626.3 "Electromagnetic compatibility test Test and measurement technology radio frequency electromagnetic radiation immunity test ", GB/T 17626.4" electromagnetic compatibility test and measurement Technical fast transient burst immunity test ", GB/T 17626.5" Electromagnetic compatibility test and measurement technology Surge (impact) immunity test ", GB/T 17626.11" electromagnetic compatibility test and measurement technology voltage sag, Short-term interruption and voltage changes in the immunity test ", combined with China's thermal gas mass flow meter technology and industry Status quo.

This specification is the first release.

Evaluation Outline of Hot Gas Mass Flowmeter Type

1 Scope

This type of evaluation outline for classification code for the 12183500 thermal gas mass flow meter (hereinafter referred to as the flow the type of evaluation).

2 reference file

This specification refers to the following documents.

JJG1132-2017 thermal gas mass flowmeter GB/T 2423.1 Environmental testing for electric and electronic products - Part 2. Test methods - Test A low temperature GB/T 2423.2 Environmental testing for electric and electronic products - Part 2. Test methods - Test GB/T 2423.3 Environmental testing for electric and electronic products - Part 2. Test methods - Test Cab. constant humidity Thermal test GB/T 2423.10 Environmental testing for electric and electronic products - Part 2. Test methods - Test Fc. Vibration (Sine) GB 4208 enclosure protection class (IP code) GB/T 15479 Industrial automation instrumentation Insulation resistance, dielectric strength Technical requirements and test methods Electromagnetic compatibility - Test and measurement techniques - Electrostatic discharge immunity test GB/T Electromagnetic compatibility - Testing and measurement techniques - Radiofrequency electromagnetic field radiation immunity test GB/T GB/T 17626.4 Electromagnetic compatibility test and measurement techniques Electrical fast transient burst immunity test GB/T 17626.5 Electromagnetic compatibility test and measurement technology Surge (impact) immunity test GB/T 17626.11 Electromagnetic compatibility test and measurement technology Voltage sags, short interruptions and voltage variations Immunity test for dated references, only the dated edition applies to this specification; references that are not dated , The latest version (including all modifications) applies to this specification.

3 terminology

In addition to the terms and definitions of JJF 1004, this specification uses the following terms.

3.1 thermal gas mass flowmeter thermal mass gas flowmeters Measurement of mass flow using the principle of heat transfer.

3.2 standard volume flow normalized volumetric flow rate 20 °C, 101.325 kPa state of the volume flow.

4 Overview

4.1 Use

Flowmeter for air, gas and other gas flow measurement.