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

JJF 1514-2015

**Examination Specification for China Metrology
Certification-Interference Type Methane Measuring Devices
(English Translation)**

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8 Other requirements (4)

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Introduction

This specification based JJF 1246-2010 related to "measurement equipment manufacturing license examination universal norms" of Appendix A Seeking to develop.

This specification is April 9, 2008 the State Administration of Quality Supervision, Inspection and Quarantine (State Quality Inspection amount of [2008] no. 190 document) issued "on the catalytic combustion of methane release measuring device (alarms, sensors), optical interference Methane detector, dust sampler measurement equipment manufacturing license examination prerequisites notice "light interference methane measuring Tuner part of the amendment. The main changes are as follows.

--- Increased "introduction", "Appendix A assessment record" section;

- Added "test conditions", "other requirements" clause;
- Revised the "production equipment", "technology equipment and die", "test equipment" content;
- Added "class detectable amount" of the assessment requirements.

The specification for the first time in the form of technical specification release, the previous version is the file format AQSIQ released.

Methane optical interferometric measuring device Measurement equipment manufacturing license examination Prerequisites

1 Scope

This specification applies to optical interference methane measuring device (hereinafter referred to as "measuring"), the company's manufacturing gauge with the necessary conditions of production license examination, review and daily supervision and inspection after the expiration.

2. References

This specification refers to the following documents.

JJG677 burning optical interference methane measuring JJF 1163 light interference methane measuring pattern evaluation outline GB 3836.1 explosive atmospheres - Part 1. General requirements for equipment GB 3836.4 explosive atmospheres - Part 4. the intrinsically safe "i" protection equipment MT28 methane optical interferometric measuring device MT424 light interference methane measuring instrument calibration General technical requirements for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Overview

Methane optical interferometric measuring device. by measuring changes in the refractive index of the gas component of gas quantitative analysis carried Instruments, measuring range there are 0 ~ 10% CH₄ 0 ~ 100% CH₄ two. Measuring device consists of a circuit, the light Road, gas and other system components. Light emitted from the light source, the condenser lens and the slit to reach the plane, and by its reflection and off After shooting form two parallel light beams, respectively, through the air chamber and the chamber of methane, then refracted by refracting prism, two beams of light and then by plane Refraction and reflection mirror together into the reflector, and then reflected into the telescope system to produce interference in the focal plane of the objective lens stripe.

4 production facilities

4.1 General

Production facilities including production equipment, process equipment and tooling, testing equipment three parts.

4.2 Production Equipment Member all or part of their own production and processing enterprises, should be prepared and reasonable for the process flow diagram, each step Production equipment should meet the technical needs; production or outsourcing key parts of the report should be evaluated with the type or the inspection report the "critical parts list" consistent, and should be able to provide all of the key components drawings.

Key components of the measuring device should at least include. optical components, batteries and other components. Own production of key components should Specified in Table 1 with the appropriate equipment.