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JJG

NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1161-2019

Hydrogen Sulfide Gas Detectors for Mining

矿用硫化氢气体检测仪检定规程

(English Translation)

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Introduction

This regulation is written in accordance with the requirements and format of JJF1002-2010 "Rules for the Compilation of National Metrology Verification Regulations".

The main technical indicators of this regulation refer to MT1084-2008 "Hydrogen Sulfide Detection Alarm for Coal Mine".

This regulation is issued for the first time.

Verification Regulation of Mine Hydrogen Sulfide Gas Detector

1 Scope

This regulation is applicable to the first verification, subsequent verification and use of the hydrogen sulfide gas detector in the mine operating environment an examination.

2 Overview

The hydrogen sulfide gas detector (hereinafter referred to as the detector) is mainly composed of the detection unit (gas chamber, sensitive components, etc.) Signal processing transmission unit, display unit, etc., through the sensitive element to convert the concentration of hydrogen sulfide gas into an electrical signal, and then After the signal processing and transmission unit, the display unit finally displays the hydrogen sulfide concentration value.

The detector is divided into diffusion type and suction type according to the sampling method, and is divided into portable and fixed type according to the use method. Fixed the detector has an electric signal output function.

3 Measurement performance requirements

3.1 Indication error the indication error of the detector should meet the requirements of Table 1.

Table 1 Indication error of detector

Measuring range x/(μmol/mol) Maximum allowable error in-use inspection for the first verification and subsequent verification 0<=x4 General technical requirements

4.1 Appearance and structure

4.1.1 The detector should not have any appearance damage that affects its normal operation. The surface of the newly manufactured detector should be smooth and smooth, the paint color coating is uniform, without peeling and rusting, and the joints of all parts should be smooth.

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