

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS K 0804 : 2014

(JSAA/JSA)

**Gas detector tube measurement
system (Length-of-stain type)**

ICS 71.040.40

Reference number : **JIS K 0804 : 2014 (E)**

K 0804 : 2014

Date of Establishment: 1985-03-01

Date of Revision: 2014-07-22

Date of Public Notice in Official Gazette: 2014-07-22

Investigated by: Japanese Industrial Standards Committee
Standards Board
Technical Committee on Environment and
Recycling Policy

JIS K 0804: 2014, First English edition published in 2016-06

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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Printed in Japan

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Safety Appliances Association (JSAA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS K 0804**:1998 is replaced with this Standard.

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Gas detector tube measurement system (Length-of-stain type)

Introduction

This Japanese Industrial Standard was established in 1985 and has gone through three revisions since then. The revision at this time is to respond to changes in the technology that took place after the last revision made in 1998.

No corresponding International Standard has been established at this point.

1 Scope

This Standard specifies the length-of-stain type short-term gas detector tubes (hereafter referred to as “detector tubes”) that are intended for short-term measurement of concentration up to about 15 min in measuring time.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7516 *Metal rules*

JIS K 0055 *General rules for calibration method of gas analyzer*

JIS Z 8703 *Standard atmospheric conditions for testing*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 gas detector tube measurement system

gas measurement system composed of a detector tube and a detector tube sampling pump (hereafter referred to as “sampling pump”)

3.2 length-of-stain type detector tube

detector tube filled with the reagent which reacts promptly with the target component in sample gas to form the interface between the stained and unstained portions, the length of the stain caused by the reaction being indicative of the gas concentration

3.3 pre-treatment tube

tube filled with the pre-treating agent for sample gas such as dehumidifying agent or decomposition reaction agent, etc. and used by connecting to detector tube

3.4 internal volume (of sampling pump)

volume of sample gas aspirated by one stroke of the sampling pump