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## **Hydrometers—Part 3: Specific gravity meters**

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## Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS B 7525-3:2013** is replaced with this Standard.

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**JIS B 7525** series consists of the following 3 parts under the general title “*Hydrometers*”:

*Part 1: Density hydrometers*

*Part 2: Liquefied petroleum gases density hydrometers*

*Part 3: Specific gravity meters*

# Hydrometers—

## Part 3: Specific gravity meters

### Introduction

Annex B and Annex C of this Japanese Industrial Standard provide, among the requirements for specific gravity meters stipulated by the Measurement Act, those related to the technical standards of construction and performance and test methods thereof. Being verified for conformance with these Annexes is not regarded as equivalent to passing the test stipulated by the Measurement Act.

### 1 Scope

This Standard specifies requirements for specific gravity hydrometers that are graduated to indicate specific gravity, heavy Baumè hydrometers that are graduated to indicate heavy Baumè degree, and sake meter value hydrometers that are graduated to indicate sake meter value (hereafter referred to as specific gravity meters). This Standard does not cover specific gravity meters with a built-in thermometer.

The requirements for specific gravity meters used for transactions or certifications are given in Annex B and Annex C.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For standards with the year indication, only the editions of the indicated year shall be applied and the revisions (including amendments) made thereafter shall not be applied. For those without the indication of the year, the most recent edition (including amendments) shall be applied.

JIS B 7616:2013 *Operation and calibration procedures of pressure balances*

JIS Z 8103 *Glossary of terms used in measurement*

### 3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS Z 8103**, and the following apply.

#### 3.1

##### reference temperature

temperature,  $t$ , to be used as a reference for graduation of the specific gravity meter

#### 3.2

##### reference water temperature

water temperature,  $t_0$ , used as a reference in determining specific gravity value

#### 3.3

##### meniscus top reading

method of taking a reading of a specific gravity meter at the top of the meniscus