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Platinum resistance thermometers

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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 Electric Measuring Instruments Manufacturers' Association (JEMIMA)/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 C 1604**:1997 is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, applications for a patent after opening to the public or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, applications for a patent after opening to the public or utility model rights.

Platinum resistance thermometers

Introduction

This Japanese Industrial Standard has been prepared based on the second edition of **IEC 60751** published in 2008 with some modifications of the technical contents adding some specifications that are not given in the corresponding International Standard.

The portions with continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with the explanations is given in Annex JC.

1 Scope

This Standard specifies the platinum resistance thermometer used for temperature measurement (hereafter referred to as "platinum resistance thermometer") and the platinum resistor integrated into a platinum resistance thermometer to measure temperature (hereafter referred to as "platinum resistor").

NOTE 1 Values of temperature in this Standard are in terms of the International Temperature Scale of 1990, **ITS-90**.

NOTE 2 Temperatures in degrees Celsius are denoted by the symbol t.

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60751:2008 *Industrial platinum resistance thermometers and platinum temperature sensors* (MOD)

The symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

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 7502 *Micrometer callipers*

JIS B 7507 *Vernier, dial and digital callipers*

JIS B 7516 *Metal rules*

JIS Z 8103 *Glossary of terms used in measurement*

JIS Z 8703 *Standard atmospheric conditions for testing*

JIS Z 8704 *Temperature measurement—Electrical methods*

3 Terms and definitions

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