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Performance test methods for radiation thermometers

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In the event of any doubts arising as to the contents,
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Contents

Page

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by Japanese Standards Association (JSA), an accredited standards development organization. This edition replaces the previous edition (**JIS C 1612** : 2000), which has been technically revised.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister is not responsible for identifying any of such patent rights, published patent application or utility model rights.

Performance test methods for radiation thermometers

1 Scope

This Japanese Industrial Standard specifies the terminology and expression of values to be used in specifications and/or instruction manuals as well as test methods for reproducing the performance (characteristics) to be shown in the specifications for industrial narrow-band (monochromatic) and broad-band (partial) radiation thermometers that measure the radiance of a target and display the temperature value converted from the measured radiance.

2 Normative reference

Part or all of the provisions of the following standard, through reference in this text, constitute provisions of this Standard. For the standard indicated below, only the edition of the indicated year shall be applied and any revisions (including amendments) made thereafter shall not be applied.

JIS Z 8103 : 2019 *Glossary of terms used in measurement*

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions, and those given in **JIS Z 8103** : 2019 apply.

3.1 Classification

3.1.1

narrow-band radiation thermometer

Alternative term : monochromatic radiation thermometer

type of radiation thermometer that measures radiant energy in a narrow wavelength band

3.1.2

broad-band radiation thermometer

Alternative term : partial radiation thermometer

type of radiation thermometer that measures radiant energy in a comparatively broad wavelength band

3.2 Terms related to radiation thermometer

3.2.1

target

area of the object to be measured over which measurement is made