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JIS

JAPANESE INDUSTRIAL STANDARD

Thermistor for temperature measurement

JIS C 1611–1995

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Thermistor for temperature measurement C 1611-1995

1. Scope This Japanese Industrial Standard specifies thermistor for temperature measurement.

Remarks 1. The following standards are cited in this Standard:

JIS B 7507 Vernier, dial and digital callipers

JIS B 7516 Metal rules

JIS C 0911 Vibration testing procedure for electric machines and equipment

JIS C 0912 Shock testing procedure for electric machines and equipment

JIS C 1302 Insulation resistance testers

JIS C 1303 High insulation resistance meters

JIS C 1604 Resistance thermometer sensors

JIS Z 8703 Standard atmospheric conditions for testing

JIS Z 8704 Temperature measurement — Electrical methods

JIS Z 8710 Temperature measurement — General requirement

2. In this Standard, the units and numerical values in { } are based on traditional unit system, and are appended for informative reference.

2. Definitions For the purpose of this standard the following definitions apply.

(1) thermistor for temperature measurement The temperature measuring probe which is composed of thermistor, inside conductor, insulator and protective tube. In the case of using terminal, outside conductor and resistance for interchange, there is the case where all of them are included.

(2) thermistor The thermistor is composed of metal oxide. It is a resistance element having negative temperature coefficient with its surface covered by glass.

(3) inside conductor The inside conductor is the part of conductor connected to the thermistor, and located in the protective tube.

(4) insulator The insulator to be used for protection of short circuit between inside conductors, and between inside conductor and protective tube.

(5) protective tube The tube to be used for such protection that the thermistor and the inside conductor do not contact directly with the substances of temperature measurement, or atmosphere.

(6) outside conductor The part of conductor which is outside of protective tube.

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