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JIS

JAPANESE INDUSTRIAL STANDARD

Measurement — General rules for calibration system

JIS Z 9090—1991

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Measurement-General rules for Calibration system

Z 9090-1991

1. Scope

This Japanese industrial standard specifies the common items for the definition of calibration system([1]) of measuring instruments to be used for measurement of physical quantities and the determination of size of errors relating to measurement.

Note ([1]) That having defined the necessary items and methods in calibration of measuring instruments.

Remarks: The applicable standards to this standard are shown in the following.

JIS Z 8101-Glossary of Terms Used in Quality Control

JIS Z 8103-Glossary of Terms Used in Instrumentation

2. Definitions

For the purpose of this standard, the definitions of JIS Z 8101 and JIS Z 8103 apply.

3. Calibration system

3.1 Calibration

3.1.1 Operations of calibration The operations to calibrate measuring instrument shall be constructed with the following two of inspection and/or correction.

(1) Inspection In the inspeciton, in order to examine the necessity of correction, determine the errors of measured values with using measurement standards (hereafter, referred to as standard) and compare them with limit of correction (see 3.3.4).

(2) Correction In the correction, in order to determine anew the calibration formula representing the relation between reading of measuring instrument and true value of measurand, conduct the measurement of standards to calculate the calibration formula or adjust the measuring instrument.

Remarks: A formula calculating measured value from the reading of measuring instrument shall be defined as calibration formula.