

Calibration Certificate

Client Name: * * * * *
Client Address: * * * * *
Calibration Site: Meteorological Instrument Center,
Japan Meteorological Agency (JMA)
Calibration Item: * * * * *
Type and Serial Number: * * * * *
Manufacturer: * * * * *
Calibration Method: As shown in page 2
Calibration Conditions: Temperature * * °C - * * °C
Relative humidity * * % - * * %
Calibration Results: As shown in page 2
Date of Application: * * * * *
Date of Performing Calibration: * * * * *
Date of issue: * * * * *

The issuing authority

Head, Meteorological Instrument Center
Observation Division, Observation Department
Japan Meteorological Agency
1-2 Nagamine Tsukuba-City Ibaraki, 305-0052, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI). The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2005.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Laboratory Accreditation Cooperation (APLAC). This (These) calibration result(s) may be accepted internationally through ILAC/APLAC MRA.

Calibration method

The calibration item was calibrated with the following reference standards and instruments;

Platinum resistance thermometer: NSR-160 NS-05030 (Netsushin)

Water triple point cell: 5901C-G 2038 (FLUKE)

Alternating current bridge: F600AC 012705/09 (ASL)

Standard resistor 100 Ω in temperature controlled enclosure:

5685A 14553/02 (Tinsley)

The calibration item was compared with the above reference standards at calibration points except for 0 °C in the liquid chamber as well as at 0 °C in the ice point bath. The procedure used in this calibration was the standard operating procedure manual No.4 of Meteorological Instrument Center, JMA.

Calibration results

Nominal temperature (°C)	Reference temperature (A) (°C)	Indication of the Calibrated item (temperature) (B) (°C)	Deviation (B) - (A) (°C)	Expanded uncertainty (°C)
-40	* * * *	* * * *	* * *	* * *
-30	* * * *	* * * *	* * *	* * *
-20	* * * *	* * * *	* * *	* * *
-10	* * * *	* * * *	* * *	* * *
0	* * * *	* * * *	* * *	* * *
10	* * * *	* * * *	* * *	* * *
20	* * * *	* * * *	* * *	* * *
30	* * * *	* * * *	* * *	* * *
40	* * * *	* * * *	* * *	* * *
50	* * * *	* * * *	* * *	* * *

Notes

The reported expanded uncertainty is stated as the combined standard uncertainty multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95 %.

-End of the Certificate-