

Calibration Certificate

Calibration Laboratory accredited by the Swiss Accreditation Service
(SAS) Accreditation number SCS 0032

METTLER TOLEDO



Mettler-Toledo GmbH
8606 Greifensee, Switzerland
Phone: +41 44 944 23 15
Fax: +41 44 944 34 10
Email: calibration@mt.com

Certificate

Certificate No.	T20704	Date of Calibration	2023-08-04
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Customer

Company	Mettler-Toledo Pac Rim AG
Address	TW-114 Taipei

Summary

Manufacturer	METTLER TOLEDO
Object	Pt1000 temperature sensor
Calibration	Temperature
Order number	145709491
Identification number	TG689
Comments	Recalibration

Head of Calibration Lab

Marc Scheurmann

Metrologist

Andrea Malinverno

Greifensee, 2023-08-14

Object

Manufacturer	METTLER TOLEDO
Object	Pt1000 temperature sensor
Identification number	TG689

Calibration

Type	Pt1000 temperature sensor
Calibration	Temperature
Condition at Calibration	Used
Comments	Recalibration

Ambient Conditions

Not relevant.

Result

Ref. Temp. ° C	Indication (Object) ° C	Deviation K	Uncertainty K	Tolerance K	In tol.?
49.82	49.89	+0.07	0.15	± 0.55	yes
100.46	100.54	+0.08	0.15	± 0.8	yes
159.81	159.82	+0.01	0.15	± 1.1	yes

Calibration Method

The temperature sensor and reference sensor are compared in a climate chamber in an equalizing aluminum block. The resistance of the temperature sensor is measured at different temperatures and converted into a temperature value using standard coefficients (EN 60751).

This calibration certificate documents the traceability to national standards, which realize the physical units of measurement (SI).

Conformity Statement

The deviation fulfills (or doesn't fulfill) the tolerance limit of EN 60751:2008, class B, as indicated in the last column of the table.

SAS

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The Swiss Accreditation Service (SAS) is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates.

Remarks

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. This calibration certificate documents the traceability to national standards, which realize the physical units of measurement (SI).