

# Calibration Certificate

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

**METTLER TOLEDO**



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## Certificate

Certificate No.	T20467	Date of Calibration	2023-05-26
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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	145606636
Identification number	TH162
Comments	Recalibration

Head of Calibration Lab

Marc Scheurmann

Greifensee, 2023-06-13

Metrologist

  
Esther Blöchlinger

**Object**

Manufacturer	METTLER TOLEDO
Object	Pt1000 temperature sensor
Identification number	TH162

**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.?
49.9	49.86	-0.04	0.15	± 0.55	yes
100.67	100.56	-0.11	0.15	± 0.8	yes
160.25	159.94	-0.31	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).