

# Calibration Certificate

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

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**METTLER TOLEDO**

Certificate number **T14677** Page **1** of **2**

|                |   |
|----------------|---|
| Object         | Pt1000 temperature sensor <i>SVC-B011</i> |
| Calibration    | Temperature                               |
| Manufacturer   | METTLER TOLEDO                            |
| Customer       | Mettler-Toledo Pac Rim AG, TW-114 Taipei  |
| Order number   | 143244805                                 |
| Comments       | Recalibration                             |
| Identification | Serial number TG746                       |



Measurement results, measurement uncertainties with confidence interval and measurement procedure are listed on the following pages and form part of the certificate.

This certificate may only be copied in its entirety.

### Object

|                          |                           |
|--------------------------|---------------------------|
| Type                     | Pt1000 temperature sensor |
| Identification           | Serial number TG746       |
| Condition at Calibration | Used                      |

### Ambient Conditions

Not relevant.

### 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).

### Result

| Ref. Temp.<br>° C | Indication<br>(Object)<br>° C | Deviation<br>K | Uncertainty<br>K | Tolerance<br>K | In tol.? |
|-------------------|-------------------------------|----------------|------------------|----------------|----------|
| 49.91             | 49.98                         | +0.07          | 0.15             | ± 0.55         | yes      |
| 100.92            | 100.97                        | +0.05          | 0.15             | ± 0.8          | yes      |
| 160.66            | 160.64                        | -0.02          | 0.15             | ± 1.1          | yes      |

### 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 above table.

### 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).

### Date of the Calibration (YYYY-MM-dd)

2018-11-21

Technical manager

Jörg Pacem

Metrologist

Esther Blöchlinger

Greifensee

2018-11-26