



More than **sensors + automation**

# DAkkS Calibration

On-site and in-house calibrating service  
for the measurand temperature



## Conscientious accuracy

- DAkkS-accredited according to DIN EN ISO/IEC 17025
- High process reliability through traceable measured values and through inclusion of the complete measuring chain
- Cost-effective serial calibration
- Calibration as a service for third-party devices with excellent price-performance ratio



[www.calibration.jumo.info](http://www.calibration.jumo.info)



## Accredited calibration laboratory for the measurand temperature

JUMO DAkkS calibration laboratory has been performing calibrations for the measurand temperature since 1992. The laboratory has been constantly expanded over time and has been accredited for on-site calibration since 2014. Based on our many years of experience and our diverse pool of clients, we can offer you calibration as a service for a wide variety of industries.

As a result, we calibrate JUMO sensors as well as products from other manufacturers. We will gladly support you in creating your measurement uncertainty report. Here we offer cost-effective seminars which, upon request, can be held as an individual application-specific training workshop on your premises. Further information can be found at: [www.seminars.jumo.info](http://www.seminars.jumo.info)

## Our range of services

| In-house calibration       | Calibration objects                   | Temperature range | Measurement uncertainty <sup>2)</sup> |
|----------------------------|---------------------------------------|-------------------|---------------------------------------|
|                            | RTD temperature probe <sup>1)</sup>   | -196 °C           | 0.05 K                                |
|                            |                                       | -80 to +500 °C    | 0.015 to 0.05 K                       |
|                            | Thermocouple <sup>1)</sup>            | -196 °C           | 0.4 K                                 |
|                            |                                       | -80 to +1100 °C   | 0.3 to 1 K                            |
|                            | Transmitter with RTD/TC <sup>1)</sup> | -196 °C           | 0.075 K                               |
|                            |                                       | -80 to +1100 °C   | 0.045 to 1.5 K                        |
|                            | Mechanical thermometer                | -196 °C           | 0.5 K                                 |
|                            |                                       | -80 to +500 °C    | 0.3 to 1.5 K                          |
|                            | Climatic chambers (temperature)       | -80 to +300 °C    | 0.4 to 1 K                            |
| Temperature display device | -200 to +2500 °C                      | 0.03 to 0.2 K     |                                       |

| On-site calibration | Calibration objects                   | Temperature range | Measurement uncertainty <sup>2)</sup> |
|---------------------|---------------------------------------|-------------------|---------------------------------------|
|                     | RTD temperature probe <sup>1)</sup>   | -40 to +500 °C    | 0.25 to 2.5 K                         |
|                     | Thermocouple <sup>1)</sup>            | -40 to +700 °C    | 0.75 to 2.5 K                         |
|                     | Transmitter with RTD/TC <sup>1)</sup> | -40 to +700 °C    | 0.25 to 2.5 K                         |
|                     | Mechanical thermometer                | -40 to +500 °C    | 0.5 to 3 K                            |
|                     | Climatic chambers (temperature)       | -80 to +300 °C    | 0.4 to 1 K                            |
|                     | Temperature display device            | -200 to +2500 °C  | 0.03 to 0.2 K                         |

<sup>1)</sup> Also direct display

<sup>2)</sup> The assignable measurement uncertainty depends on the testing temperature and the respective calibration object.

## What information is included in a calibration certificate?

The calibration certificate documents all measurement results, the corresponding measurement conditions, and the calculated measurement uncertainties. It also includes all specifications that clearly identify the test piece to eliminate any confusion. Upon request, you can also receive a temperature resistance table showing the entire measuring range of the test piece in 1 kelvin steps with the associated increase values.

