



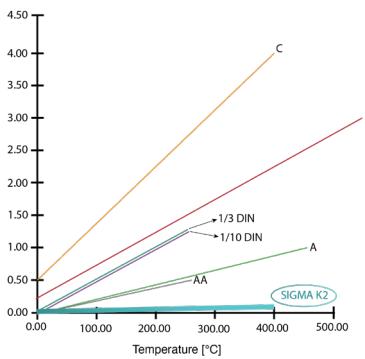
TEMPERATURE CALIBRATION LABORATORY

SIGMA SENSORS PRT CALIBRATION

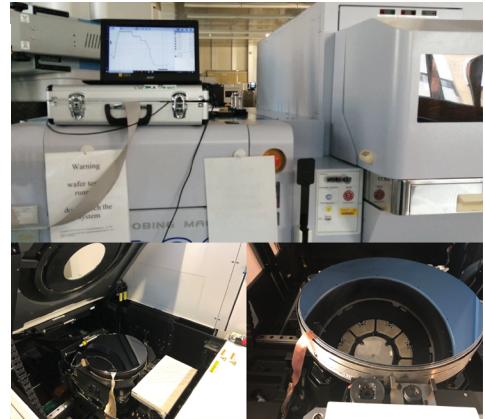
WHY DO A PRT CALIBRATION?

There are two types of calibrations applicable to PRTs—characterization and tolerance testing. The Unit Under Test (UUT) usage and the accuracy requirements determine the kind of calibration to apply. Characterization is the type of calibration in which the UUT resistance is determined at several temperature points, and the data are fitted to a mathematical expression. On the other hand, tolerance testing is a calibration in which the UUT resistance is compared to defined values at specific temperatures. Therefore, there is no need to fit the data. In the laboratory, we must perform both types of calibration depending upon our customer's needs.

Sigma K₂ Accuracy vs PT100 Tolerances



ISO/IEC 17025:2017 ACCREDITATION CERTIFICATE #6327.01



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Sigma Sensors (TCL) GmbH

Representative Code _____

ABOUT SIGMA SENSORS (TCL) GmbH

ABOUT US

OUR MISSION

ISO/IEC 17025:2017

ITS90

At Sigma Sensors (TCL), we serve the global semiconductor industry with **ISO/IEC 17025:2017** accredited and **ITS90** traceable thermal chuck calibrations, temperature wafer calibration and calibration wafers for surface temperature measurement.

At Sigma Sensors we strive to provide our customers the highest quality service to internationally established standards. Our goal is to be an instrumental partner to our customers in meeting their calibration requirements and to exceed expectations by continual improvement.

ISO/IEC 17025:2017 is the global standard for calibration laboratories. We offer traceable, accurate, and precise surface temperature measurements for the semiconductor industry globally as well as standard thermometer and temperature sensor calibration services.

Sigma Sensors (TCL) is **the first temperature calibration laboratory specializing in surface temperature measurement globally**. Our focused area of expertise are thermal chuck and temperature wafer calibrations. In conjunction with our production and distribution partner TEK-Sense we also offer traceable calibration wafers for the semiconductor industry.

When temperature counts and traceability to ITS90 is required, there is only one place where measurements are performed with confidence in the results: Sigma Sensors.