



# DKD and ISO calibration of temperature sensors.



**ifm calibration laboratory accredited to DIN EN ISO / IEC 17025.**

- Calibration reports with 3, 5 and n measurement points available.
- Measuring range from -20 to 150 °C.
- Available for all temperature sensors.
- Calibration of temperature sensors with current or voltage output, resistor (Pt100, Pt1000) and display.

High accuracy

Pt100  
Pt1000

The accuracy of temperature measuring units plays a decisive role during production processes. The quality of the final product depends on it. It is indispensable to monitor the sensors regularly.

That means that the requirements on the product certification increase; only the indications in the data sheet are no longer sufficient and regular verification is necessary.

On this basis ifm electronic offers not only long-standing tried-and-tested development and production experience but also calibration of temperature sensors to DKD and ISO.

This service includes both the calibration of new sensors purchased ex works and periodic calibrations.



Calibration of temperature sensors

fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems

Number of measurement points	Measurement points [°C]	Measurement uncertainty [K]	Order no.
<b>DKD calibration certificates</b>			
3-point DKD calibration	65, 85, 123	0.1	ZC0013
5-point DKD calibration	20, 65, 85, 100, 123	0.1	ZC0014
n-point DKD calibration	Number and positions of the calibration points as requested by the customer	0.1	ZC0015
<b>ISO calibration certificates</b>			
3-point ISO calibration	65, 85, 123	0.1	ZC0016
5-point ISO calibration	20, 65, 85, 100, 123	0.1	ZC0017
n-point ISO calibration	Number and positions of the calibration points as requested by the customer	0.1	ZC0018

• **General calibration process**

The comparative measurement is performed in a stirred, temperature-controlled liquid bath.

• **According to Deutscher Kalibrierdienst (DKD)**

Following the DKD-R 5-1 directive "Calibration of resistance thermometers" calibration is performed by ifm electronic as an accredited laboratory by means of comparative measurement.

• **Measuring systems to DKD / ISO**

They are traceable to national standards of the Physikalisch-Technische Bundesanstalt (PTB) and other national standards.

