


Calibration certificate for temperature sensors



Kalibrierzeugnis

Dittmer Prüfzeugnis / Calibration Certificate Kom.Nr.: 1111/0103

Elementenprüfung im Vergleich zu DKD-Element / Element proof in compared to DKD-Element

Referenzelement/Reference: PT100 DKD-kalibriert in 4-Leitertechnik
 Prüfnummer/Calibration mark: 193 DKD-K 05601
 Seriennummer/Serial number: 492629
 Prüfeinrichtung/Testing outfit: Flüssigkeitsbad Tamson TV 4000
 Seriennummer/Serial number: 95290
 Genauigkeit/accurate: + / - 0,02°C

Meßeinrichtung/proof with: Digitalmultimeter KEITHLEY 2000 SCAN
 Meßfehler/accurate: Auflösung 0,001 OHM

Kunde/Cust: Mustermann

Best.-Nr./Ord.-No.: Muster 001

Prüfung-Nr./Proof-No.: Kal1 sw-ge rt-ws

Temperatur in °C	Referenz in OHM	Prüfung/Proof in Ohm	Abw./Diff. °C
0	100,000	100,259	0,673
20	107,794	108,069	0,714
30	111,673	111,937	0,686
40	115,541	115,797	0,665
50	119,397	119,664	0,694
60	123,242	123,504	0,681
70	127,075	127,330	0,662
80	130,897	131,142	0,636
90	134,707	134,957	0,649
100	138,506	138,745	0,621
110	142,280	142,522	0,631
120	146,068	146,338	0,701

Datum: 08.01.03 Prüfer: Dittmer

Why sensor calibration?

Because it concerns with a temperature sensor a virtually linear element, a calibration (comparative measurement to a DKD – reference element) can be necessary for highly exact measurements.

With this calibration the physically induced deviations by the mechanical Construction (heat dissipation) and the linearity error of the sensors run in to the measurement. These deviations can then be set as the correction value in the subsequent measurement / control. The measuring error is thus kept as low as possible.

Calibration certificate for resistance thermometers and thermocouples

	Resistance thermometer	Thermocouple
	Order no.	Order no.
Base Price calibration	9.10.00.00	9.20.00.00
Single measurement point	9.10.00.01	9.20.00.01
3 measuring points	9.10.00.03	9.20.00.03
Each additional measurement points	9.10.00.10	9.20.00.10