

Calibration Report

Issued from: **inTEST Thermal Solutions GmbH**
Gewerbeparkring 18
D-15299 Müllrose,
Deutschland

Report No.: **140806, consists of 2 pages + 1 attachment**

Customer: **HSR Hochschule für Technik**
Oberseestrasse 10
CH-8640 Rapperswil
Switzerland

System

Manufacturer: Temptronic Corp.
Typ: TP04300A-3C32-4
Serial-No.: 02070381

Calibrator

Manufacturer: Omega
Typ: PCL1000
Serial- No: 2287206
Cal. Report- No: D-K-15015-01-05
2014-02

Uncertainty of Calibrator @ 22°C ±3°C:

TC-K (-60°C/+200°C) 0,6°C
TC-T (-60°C/+200°C) 0,5°C

Calibration method:

Calibration was performed in accordance with manufacturer's instructions. Temptronic temperature controller was checked by simulating temperatures of -60.0°C and +200.0°C with a calibrator. The calibration was performed by using the calibration routine of the Temptronic temperature controller.

Before Calibration:

Target: -60,0°C		Target: +200,0°C	
measured value: (AIR-T):	-59,8°C	measured value: (AIR-T):	+199,6°C
(DUT-T):	-59,9°C	(DUT-T):	+199,6°C
(DUT-K):	+340,3°C	(DUT-K):	-79,7°C

DUT-K value was outside the specification.

After Calibration:

Target: -60,0°C		Target: +200,0°C	
measured value: (AIR-T):	-59,9°C	measured value: (AIR-T):	+200,0°C
(DUT-T):	-59,8°C	(DUT-T):	+199,8°C
(DUT-K):	-60,2°C	(DUT-K):	+200,2°C

All values are inside the specification.

Geschäftsführer: Peter Ulbrich

Statement

The used calibrator was calibrated by an EAL Calibration Laboratory with that calibration report mentioned above. The calibration of the equipment is traceable to national and international standards (see attached).

calibrated: August 06th, 2014

calibration interval: 12 months

inTEST Thermal Solutions GmbH

calibrated by: Manfred Maschke

signature: