

I-cal Easy Laboratory

Kelvin House, Measurement Road

Calibration Certificate

Date of Calibration

19/01/2005

The thermocouple under test was compared with a Standard Thermometer in a Dry Block Bath. The thermometers were immersed to a depth of 160mm. The result summary shows the mean of three measurements at each temperature. The standard value is shown in °C along with the recorded voltage from the thermocouple referenced for 0°C
The Temperature Scale used is ITS-90

Standard	Unit Under Test	Setpoint
156.260000	0.004490	156.0000
200.283333	0.005910	200.0000
232.286667	0.006977	232.0000
420.443333	0.013708	420.0000
550.060000	0.018632	550.0000
650.140000	0.022526	650.0000
50.216667	0.001344	50.0000

The serial number of the unit under test was TC N 234

The voltage output of the thermocouple under test was compared to the expected voltage at each calibration temperature according to IEC-584. Using the standard temperatures and the corresponding voltage differences for the unit under test a polynomial was fitted for the error curve. The coefficients are shown below.

Where $y = B \sqrt{x} + Cx + D$
Add correction to measured value
y correction in mV, x = reference temperature

Coefficient B	-2.3146471526262E-10
Coefficient C	1.1863392232575E-7
Coefficient D	-3.82882471139507E-6

The serial number of the standard thermometer was: 14-95 D2