

I-cal Easy Laboratory

Kelvin House, Measurement Road

Calibration Certificate

Date of Calibration 17/01/2005

The thermometer 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 is shown in °C and the unit under test in Ohms. The Temperature Scale used is ITS-90.

The estimated uncertainty of calibration is +/-0.3°C

| Standard | Unit Under Test | Setpoint |
|------------|-----------------|----------|
| -29.636667 | 88.429000 | -30.0000 |
| 0.180000 | 100.138000 | 0.0000 |
| 29.850000 | 111.693000 | 29.8000 |
| 125.050000 | 148.098333 | 125.0000 |
| 0.116667 | 100.111000 | 0.0000 |

The serial number of the unit under test was RTD 56-56-01

Coefficient A for the ITS-90 Sub Range 0 to 29.7646°C was calculated using the data shown on page 2.

Coefficient A -2.00409327e-2

The serial number of the standard thermometer was: Std PRT 12-32-12

ITS-90 Data

| 0 to 29.7646 (Gallium) | Temperature °C | Resistance | R(H2Otp) | W | Wr |
|------------------------|----------------|------------|----------|------------|------------|
| MP Gallium 29.7646 | 29.850000 | 111.693000 | 100.07 | 1.11614870 | 1.11847642 |