

# ACCURATE THERMAL SYSTEMS TEMPERATURE CALIBRATION SERVICES

## INSTRUMENTS CALIBRATED

- >Dry Block calibrators
- >Thermometers (LIG & dial)
- >RTD & PRT sensors (ITS90)
- >Thermocouple & RTD handheld digital meters
- >Autoclave temperature data loggers
- >Lab PCR Thermal Cyclers
- >Lab Dri-Blocks
- >Thermistor thermometers and probes

## CALIBRATION RANGES

- > Dry block calibrators -50 to 650°C
- >All sensors, thermometers and digital meters -25 to 600°C
- >Thermal Cyclers 0 to 100°C

## SERVICES AVAILABLE

- Calibration due reminders
- Technical support
- Application support
- Instrument repair
- Maintenance
- New equipment sales



Annual calibrations are recommended for all models of Dry Block calibrators. We can also provide stability measurements on the calibration certificate for critical temperature points that you use with your Dry Block Calibrator.

PCR Thermal Cyclers are calibrated at 94, 55, 72 and 10°C and the heater lid temperature verified. Heat up and cool down rates can also be provided by request.

We perform ITS90 calibrations on RTD's and PRT's from -25 to 420°C and will enter the new coefficients into your readout.

All of our asset calibration reports are available for review and reverse traceability analysis.



## WHY CHOOSE US

We are temperature experts with over 25 years of calibration experience.

You'll get reliable support, service and technical know-how unlike like the big calibration houses. We'll calibrate and turnaround your asset typically in 3 business days. Our calibrations are NIST traceable and ISO17025 compliant.

## Calibration Uncertainties

Instrument Type	Uncertainty (K=2)
Dry Block Calibrators	$\pm 0.030 @ -50^{\circ}\text{C}$ , $\pm 0.031 @ 0^{\circ}\text{C}$ , $\pm 0.031 @ 100^{\circ}\text{C}$ , $\pm 0.032 @ 300^{\circ}\text{C}$ , $\pm 0.034 @ 600^{\circ}\text{C}$
PCR Thermal Cyclers	$\pm 0.3 @ 94, 55, 72 \text{ \& } 10^{\circ}\text{C}$
LIG thermometers & autoclave temperature loggers	$\pm 0.058 @ -25^{\circ}\text{C}$ , $\pm 0.023 @ 0^{\circ}\text{C}$ , $\pm 0.054 @ 50^{\circ}\text{C}$ , $\pm 0.061 @ 100^{\circ}\text{C}$ , $\pm 0.070 @ 130^{\circ}\text{C}$
RTD's & PRT's (ITS90)	$\pm 0.058 @ -25^{\circ}\text{C}$ , $\pm 0.016 @ 0^{\circ}\text{C}$ , $\pm 0.071 @ 230^{\circ}\text{C}$ , $\pm 0.084 @ 420^{\circ}\text{C}$
Hand held meters with probes attached & thermistors	$\pm 0.058 @ -25^{\circ}\text{C}$ , $\pm 0.023 @ 0^{\circ}\text{C}$ , $\pm 0.054 @ 50^{\circ}\text{C}$ , $\pm 0.061 @ 100^{\circ}\text{C}$ , $\pm 0.071 @ 100^{\circ}\text{C}$ , $\pm 0.078 @ 100^{\circ}\text{C}$

Do you have an instrument or sensor not listed here or something custom to be calibrated?

Give us a call to discuss and request a quotation.



4106 Sylon Blvd  
Hainesport, NJ 08036 USA  
Ph: 609-326-3190  
Fax: 609-479-5124  
Email: [service@accuthermal.com](mailto:service@accuthermal.com)  
Website: [www.accuthermal.com](http://www.accuthermal.com)