

Precision Thermometry Calibration



Our Calibration Services (typical turnaround time 10 working days):

	Range	Least Uncertainty	Price (excluding GST)
Industrial Platinum Resistance Thermometers	-190 °C to 550 °C	3.5 mK to 14.5 mK	\$1,500
Industrial Platinum Resistance Thermometers	-40 °C to 550 °C	2.6 mK to 14.5 mK	\$1,100
Standard Platinum Resistance Thermometers	-40 °C to 660 °C	0.12 mK to 3 mK	Price on Request
Resistance Thermometry Bridges	0 to 13 Ω/Ω	$2 \times 10^{-8} \Omega/\Omega$	\$1,100
Dew Point Hygrometers	-60 °C to 70 °C	0.06 °C to 0.18 °C	\$1,000 to \$1,500
Relative Humidity Hygrometers	10% RH to 95% RH	0.1% RH to 0.6% RH	\$1,000 to \$1,500
Infrared Radiation Thermometers*	-20 °C to 1,100 °C	0.5 °C to 4 °C	\$1,500

*Awaiting accreditation; contact us for details.

Other products and services:

- Initial characterisation of IPRT probes and thermometers (\$400 + GST)
- Triple-Point-of-Water Cells (\$2,500 – \$4,000 + GST)
- Precision Temperature Controllers (\$2,500 + GST)
- Ice-point Humidity Generator (\$99 + GST)
- Industrial Furnace Surveys (\$5,000 – \$40,000 + GST)
- “Traceable Temperatures” by J.V. Nicholas and D.R. White (\$280 + GST)
- A variety of measurement training courses (see website or contact us)

For more information please see: <http://msl.irl.cri.nz>

Contact and shipping details:

Calibrations:

Hamish Edgar

Measurement Standards Laboratory of New Zealand
69 Gracefield Rd
PO Box 31-310
Lower Hutt 5040
New Zealand
Phone: 04 931 3493
Fax: 04 931 3194
hamish.edgar@callaghaninnovation.govt.nz

Other enquiries including measurement courses:

Peter Saunders

Phone: 04 931 3143
peter.saunders@callaghaninnovation.govt.nz

IANZ Accredited Temperature Calibration Laboratories (see <http://cabis.ianz.govt.nz/ianzwebportal/> for updated schedules)

Company and Representative	Postal Address	Physical & Web Address	Phone/ Fax	Services	Range and Uncertainty (Laboratory)	Site
Babcock (NZ) Ltd Alan May calibration@babcocknz.co.nz	Private Bag 32903 Devonport Auckland 0744	HMNZ Dockyard Queens Parade Devonport Auckland 0624 www.babcocknz.co.nz	Ph 09 4461999 Fx 09 4461740	Direct reading IR Thermometers	-25 °C to -20 °C ± 0.11 °C -20 °C to 0 °C ± 0.1 °C 0 °C ± 0.02 °C 0 °C to 150 °C ± 0.1 °C 150 °C to 250 °C ± 0.12 °C 250 °C to 420 °C ± 0.20 °C 420 °C to 660 °C ± 0.30 °C -10 °C to 100 °C ± 0.27 °C to 0.3 °C 100 °C to 500 °C ± 0.8 °C to 1.2 °C	Laboratory
Calibration Services Luke Edkins info@calibration.net.nz	32 Shelter Dr Greenhithe 0632 Auckland	32 Shelter Drive Greenhithe 0632 Auckland www.calibration.net.nz	Ph 021 932 412	Direct reading IR Thermometers	-200 °C to -75 °C ± 0.1 °C -75 °C to -40 °C ± 0.08 °C -40 °C to 70 °C ± 0.04 °C 0 °C ± 0.02 °C 70 °C to 200 °C ± 0.045 °C 100 °C to 400 °C ± 0.16 °C 400 °C to 555 °C ± 2.0 °C 555 °C to 1000 °C ± 3.0 °C -35 °C to 100 °C ± 0.35 °C 100 °C to 350 °C ± 0.5 °C	Laboratory Field Enclosures
Calibration Solutions Ltd Rhys Blair rblair@calibrationsolutions.co.nz	PO Box 8930 Riccarton Christchurch 8440	Unit 4 243 Blenheim Road Christchurch 8041 www.calibrationsolutions.co.nz	Ph 03 343 4158 Fx 03 343 4159	Direct reading	-196 °C ± 0.04 °C -78.5 °C ± 0.1 °C -40 °C to 30 °C ± 0.026 °C 0 °C ± 0.01 °C 30 °C to 200 °C ± 0.019 °C 400 °C to 1000 °C ± 0.92 °C to 1.4 °C 1000 °C to 1050 °C ± 2.3 °C	Laboratory Field Enclosures
CPS (NZ) Ltd Chris Woudenberg (Managing Director and Lab Manager) chris@cps.co.nz	PO Box 12-684 Penrose Auckland 1642	38 Angle Street Onehunga Auckland 1061 www.cps.co.nz	Ph 09 636 4999 Fx 09 634 4454	Direct reading	-100 °C to -20 °C ± 0.1 °C 0 °C ± 0.02 °C -20 °C to 200 °C ± 0.015 °C 200 °C to 300 °C ± 0.02 °C 300 °C to 400 °C ± 0.15 °C 400 °C to 660 °C ± 0.20 °C	Laboratory Field Enclosures

				IR Thermometers	-15 °C to 0 °C ± 1.0 °C 0 °C to 130 °C ± 0.24 °C 130 °C to 500 °C ± 0.75 °C	
Entec Services Ltd Mathew Wellington Mat.Wellington@entec.co.nz	PO Box 7071 New Plymouth 4341	674 Devon Road Waiwhakaiho New Plymouth 4312 www.entec.co.nz	Ph 06 758 3030 Fx 06 758 3075	Direct reading	-35 °C to 20 °C ± 0.023 °C 0 °C ± 0.01 °C 20 °C to 70 °C ± 0.016 °C 70 °C to 200 °C ± 0.023 °C	Laboratory Enclosures
Homersham Ltd Joanne Atkinson (Manager) joanne@homershams.co.nz	PO Box 79085 Avonhead Christchurch 8446	3 Homersham Place Burnside Christchurch 8053 www.homershams.co.nz	Ph 03 358 8309 Fx 03 358 2516	Direct reading IR Thermometers	-30 °C to -20 °C ± 0.08 °C 0 °C ± 0.01 °C -20 °C to 200 °C ± 0.05 °C -30 °C to 140 °C ± 0.5 °C	Laboratory Field
Honeywell Ltd David Ferguson david.ferguson2@honeywell.com	PO Box 4132 Christchurch 8140	8 Craft Place Middleton Christchurch 8024 www51.honeywell.com/pacific	Ph 03 338 5654 Fx 03 338 4243	Direct reading	-20 °C to 155 °C ± 0.5 °C 0 °C ± 0.02 °C 20 °C to 60 °C ± 0.1 °C 60 °C to 95 °C ± 0.2 °C	Laboratory Field
Industrial Instrumentation Ltd Tony Brill tony@instrument.co.nz	PO Box 58 415 Greenmount Auckland 2141	Unit 7, 123 Cryers Road East Tamaki Auckland 2013 www.instrument.co.nz	Ph 09 271 6560 Fx 09 271 6561	Direct reading	-30 °C to 6 °C ± 0.07 °C to 0.03 °C 0 °C ± 0.01 °C 6 °C to 30 °C ± 0.03 °C 30 °C to 90 °C ± 0.03 °C to 0.05 °C 90 °C to 150 °C ± 0.05 °C to 0.13 °C 150 °C to 300 °C ± 0.13 °C to 0.27 °C 300 °C to 450 °C ± 0.27 °C to 0.28 °C 450 °C to 600 °C ± 0.28 °C to 0.54 °C	Laboratory Field
Pentair Valves & Controls Ltd	PO Box 10152 Te Rapa Hamilton 3241	12 – 14 Kaimiro Street Pukete Hamilton 3200 www.pentair.com	Ph 07 958 7170 Fx 07 958 7171	Direct reading	-30 °C to 0 °C ± 0.05 °C 0 °C ± 0.01 °C 0 °C to 200 °C ± 0.03 °C 200 °C to 400 °C ± 0.3 °C 400 °C to 550 °C ± 0.9 °C	Laboratory Field Enclosures
TechRentals (NZ) Ltd Mauray Ganter (Laboratory Manager) maurayg@techrentals.co.nz	PO Box 12032 Penrose Auckland 1642	101A Station Road Penrose Auckland 1061	Ph 09 589 2039 Fx 09 589 2031	Direct reading	-27 °C to -20 °C ± 0.12 °C -19 °C to -12 °C ± 0.09 °C -11 °C to -5 °C ± 0.06 °C -4 °C to 0 °C ± 0.04 °C 0 °C ± 0.01 °C 0 °C to 14 °C ± 0.03 °C	

					15 °C to 124 °C ± 0.02 °C	
Teltherm Instruments Ltd Anne Evans anne@teltherm.co.nz	PO Box 12171 Penrose Auckland 1642	Unit 5 / 343 Church Street Onehunga Auckland 1061 www.teltherm.co.nz	09 633 0040 09 633 0012 (fax)	Direct reading IR Thermometers	-40 °C to 75 °C ± 0.03 °C 0 °C (ice point) ± 0.01 °C 80 °C to 300 °C ± 0.04 °C 300 °C to 450 °C ± 0.07 °C 450 °C to 500 °C ± 0.1 °C -30 °C to 140 °C (E=1) ± 0.3 °C 140 °C to 500 °C (E=1) ± 0.6 °C	Laboratory Field
Temperature Calibration Laboratory Derek Hobbis da.hobbis@auckland.ac.nz	c/o Auckland Uni Services Limited Private Bag 92019 Auckland 1020	3 Grafton Road Grafton Auckland www.tcl.ac.nz	Ph 09 373 7599 ext 85803 Fx 09 373 7564	Direct reading	-40 °C to -10 °C ± 0.026 °C 0 °C (ice point) ± 0.01 °C -10 °C to 99 °C ± 0.014 °C 99 °C to 200 °C ± 0.012 °C	Laboratory
Temprecord International Limited Greg Hall (Laboratory Manager) info@temprecord.com	PO Box 58-430 Botany Auckland 2163	239D Burswood Drive East Tamaki 2013 Auckland www.temprecord.com	Ph 09 274 9825 Fx 09 273 4020	Direct reading	-196 °C ± 0.18 °C -15 °C ± 0.061 °C 0 °C ± 0.061 °C 40 °C ± 0.061 °C -38 °C to 50 °C ± 0.20 °C -90 °C to 100 °C ± 0.80 °C	Laboratory

This version created November 2016.

MSL is New Zealand's national metrology institute provided by

Callaghan Innovation Research Limited under the authority of the Measurement Standards Act 1992.