Laboratory Accreditation Programmes

Schedule to

CERTIFICATE OF ACCREDITATION

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RYcal Services Limited **Client Number 10010**

10 Te Arei Road West, RD 3, New Plymouth, 4373

Telephone 021 356139 **www.rycal.co.nz**

Authorised Representative
Mr Nathan Ryder
Director

Programme
Metrology & Calibration Laboratory

Accreditation Number 1392 **Initial Accreditation Date** 20 September 2021

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

5.61	Temperature Measuring Equipment
5.88	Calibrators for Instrumentation
5.89	Indicating Instruments and Recording Instruments

Key Technical Personnel

Mr Nathan Ryder	5.61, 5.88, 5.89

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Calibration and Measurement Capabilities (CMC) are expressed as an expanded uncertainty corresponding to a level of confidence of 95 % Note1.

Measurement results are traceable to the International System of Units (SI) via an unbroken chain of comparisons to the New Zealand National Standards or to the National Standards of other Signatories to the CIPM MRA.

Calibrations are undertaken at the laboratory premises at 23 °C ±5 °C.

Measureand/range	Parameter	CMC Uncertainty

5.61 Temperature Measuring Equipment

(o) Indicators, recorders and controllers
(p) Other direct reading temperature measuring systems including transducers and transmitters with electrical 4-20 mA, 1-10 Vdc and 1-5 Vdc outputs

In accordance with MSL Technical Guide 1

Ice-point (can be carried out on-site)	0.01 °C

Thermocouple Simulation Internal Reference Junction

Type J	
-210 °C to -100 °C	0.21 °C
-100 °C to -30 °C	0.12 °C
-30 °C to 150 °C	0.11 °C
150 °C to 760 °C	0.13 °C
760 °C to 1200 °C	0.17 °C
Type K	
-200 °C to -100 °C	0.25 °C
-100 °C to -25 °C	0.14 °C
-25 °C to 120 °C	0.12 °C
120 °C to 1000 °C	0.20 °C
1000 °C to 1372 °C	0.30 °C
Type T	
-250 °C to -150 °C	0.48 °C
-150 °C to 0 °C	0.18 °C
0 °C to 120 °C	0.12 °C
120 °C to 400 °C	0.11 °C

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5.88 Calibrators for Instrumentation

By comparison with reference instrument to an in-house method based on manufacturer recommendations and/or customer requirements. Note that CMC Uncertainties only include reference device uncertainties and reported measurement uncertainty for a customer's device is likely to be larger.

(a) DC voltage

Including negative values	
0 mV to 202 mV	15 µV/V + 0.2 µV
0 V to 2.02 V	5.8 µV/V + 0.3 µV
0 V to 20.2 V	5.8 µV/V + 0.5 µV
0 V to 202.2 V	8.5 µV/V + 30 µV
0 V to 1050 V	8.9 µV/V + 500 µV

Thermocouple sourcing reference junction at 0 °C. As per DC Voltage CMC's using the tables outlined in appendix D of "Traceable Temperatures" second edition.

(b) AC voltage

0.01212 mV to 12.12 mV	10 Hz to 2 kHz	330 µV/V + 1.1 µV
	2 kHz to 10 kHz	480 µV/V + 1.1 µV
	10 kHz to 30 kHz	490 µV/V + 1.1 µV
	30 kHz to 100 kHz	3500 µV/V + 1.1 µV
	100 kHz to 300 kHz	13000 µV/V + 4 µV
	300 kHz to 1 MHz	23000 µV/V + 4 µV
0.1212 mV to 121.2 mV	10 Hz to 2 kHz	130 µV/V + 0.5 µV
	2 kHz to 10 kHz	200 µV/V + 0.5 µV
	10 kHz to 30 kHz	380 µV/V + 1 µV
	30 kHz to 100 kHz	920 µV/V + 5 µV
	100 kHz to 300 kHz	3800 µV/V + 30 µV
	300 kHz to 1 MHz	13000 µV/V + 100 µV
	1 MHz to 2 MHz	18200 µV/V + 500 µV
0.001212 V to 1.212 V	10 Hz to 2 kHz	120 µV/V + 5 µV
	2 kHz to 10 kHz	190 µV/V + 5 µV
	10 kHz to 30 kHz	380 µV/V + 10 µV
	30 kHz to 100 kHz	920 µV/V + 50 µV
	100 kHz to 300 kHz	3700 µV/V + 300 µV
	300 kHz to 1 MHz	13000 µV/V + 1000 µV
	1 MHz to 2 MHz	18000 µV/V + 5000 µV
0.01212 V to 12.12 V	10 Hz to 2 kHz	120 µV/V + 50 µV
	2 kHz to 10 kHz	190 µV/V + 50 µV
	10 kHz to 30 kHz	380 µV/V + 100 µV
	30 kHz to 100 kHz	920 µV/V + 500 µV

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		100 kHz to 300 kHz	3700 µV/V + 3000 µV
		300 kHz to 1 MHz	13000 µV/V + 10000 µV
		1 MHz to 2 MHz	18000 µV/V + 50000 µV
	0.1212 V to 121.2 V	10 Hz to 2 kHz	130 µV/V + 500 µV
		2 kHz to 10 kHz	160 µV/V + 500 µV
		10 kHz to 30 kHz	380 µV/V + 1000 µV
		30 kHz to 100 kHz	980 µV/V + 5000 µV
		100 kHz to 300 kHz	6000 µV/V + 50000 µV
		300 kHz to 1 MHz	13000 µV/V + 500000 µV
	1.05 V to 1050 V	10 Hz to 2 kHz	160 µV/V + 25000 µV
		2 kHz to 10 kHz	160 µV/V + 25000 µV
		10 kHz to 30 kHz	380 µV/V + 25000 µV
		30 kHz to 100 kHz	980 µV/V + 100000 µV
(c)	DC current		
Including negative values			
	0 A to 20.2 µA		40 µA/A + 0.0004 µA
	0 A to 202 µA		15 µA/A + 0.0004 µA
	0 A to 2.02 mA		14 µA/A + 0.004 µA
	0 A to 20.2 mA		20 µA/A + 0.04 µA
	0 A to 202 mA		86 µA/A + 1 µA
	0 A to 2.02 A		199 µA/A + 100 µA
	0 A to 20.2 A		351 µA/A + 400 µA
	0 A to 30.2 A		827 µA/A + 4380 µA
(d)	AC current		
	0.0202 µA to 20.2 µA	10 Hz to 2 kHz	3070 µA/A + 0.0025 µA
		2 kHz to 10 kHz	3070 µA/A + 0.0025 µA
		10 kHz to 30 kHz	3090 µA/A + 0.0025 µA
	0.202 µA to 202 µA	10 Hz to 2 kHz	390 µA/A + 0.005 µA
		2 kHz to 10 kHz	750 µA/A + 0.005 µA
		10 kHz to 30 kHz	970 µA/A + 0.005 µA
		30 kHz to 100 kHz	5720 µA/A + 0.01 µA
	0.00202 mA to 2.02 mA	10 Hz to 2 kHz	390 µA/A + 0.05 µA
		2 kHz to 10 kHz	750 µA/A + 0.05 µA
		10 kHz to 30 kHz	970 µA/A + 0.05 µA
		30 kHz to 100 kHz	5720 µA/A + 0.1 µA
	0.0202 mA to 20.2 mA	10 Hz to 2 kHz	390 µA/A + 0.5 µA
		2 kHz to 10 kHz	750 µA/A + 0.5 µA
		10 kHz to 30 kHz	970 µA/A + 0.5 µA

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		30 kHz to 100 kHz	5720 µA/A + 1 µA
	0.202 mA to 202 mA	10 Hz to 2 kHz	380 µA/A + 5 µA
		2 kHz to 10 kHz	740 µA/A + 5 µA
		10 kHz to 30 kHz	980 µA/A + 5 µA
	0.00202 A to 2.02 A	10 Hz to 2 kHz	400 µA/A + 100 µA
		2 kHz to 10 kHz	770 µA/A + 100 µA
		10 kHz to 30 kHz	1020 µA/A + 100 µA
	0.0202 A to 20.2 A	10 Hz to 2 kHz	1550 µA/A + 500 µA
		2 kHz to 10 kHz	1410 µA/A + 500 µA
	0.0302 A to 30.2 A	10 Hz to 2 kHz	1260 µA/A + 12000 µA
		2 kHz to 10 kHz	1500 µA/A + 12000 µA

(e) Resistance

0 Ω to 2.02 Ω	25 µΩ/Ω + 0.000004 Ω
0 Ω to 20.2 Ω	15 µΩ/Ω + 0.000014 Ω
0 Ω to 202 Ω	14 µΩ/Ω + 0.00005 Ω
0 Ω to 2.02 kΩ	14 µΩ/Ω + 0.0005 Ω
0 Ω to 20.2 kΩ	14 µΩ/Ω + 0.005 Ω
0 Ω to 202 kΩ	14 µΩ/Ω + 0.05 Ω
0 Ω to 2.02 MΩ	16 µΩ/Ω + 1 Ω
0 Ω to 20.2 MΩ	28 µΩ/Ω + 100 Ω
0 Ω to 202 MΩ	179 µΩ/Ω + 10000 Ω
0 Ω to 330 MΩ	1960 µΩ/Ω + 1000000 Ω

Resistance Based thermometry. As per resistance CMC's using the tables outlined in appendix C of "Traceable Temperatures" second edition.

(g) Capacitance

0 nF to 2.02 nF	2750 µF/F + 0.000001 µF
1.8 nF to 20.2 nF	1210 µF/F + 0.000002 µF
18 nF to 202 nF	732 µF/F + 0.00001 µF
0.18 µF to 2.02 µF	621 µF/F + 0.0001 µF
1.8 µF to 20.2 µF	627 µF/F + 0.001 µF
18 µF to 202 µF	919 µF/F + 0.01 µF
0.18 mF to 2.02 mF	922 µF/F + 0.1 µF
1.8 mF to 20.2 mF	1070 µF/F + 1 µF
18 mF to 202 mF	1070 µF/F + 10 µF

(i) Frequency

10 Hz to 2 MHz	1 µHz/Hz

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5.89 Indicating Instruments and Recording Instruments

By comparison with reference instrument to an in-house method based on manufacturer recommendations and/or customer requirements. Note that CMC Uncertainties only include reference device uncertainties and reported measurement uncertainty for a customer's device is likely to be larger. Calibrations are normally conducted using the reference instrument that offers the lowest uncertainty. In some instances, the applicable CMC will be taken from class 5.88.

(a) DC voltmeters

Including negative values

0 V to 329.99 mV	15 µV/V + 0.8 µV
0 V to 3.299 V	8 µV/V + 1.5 µV
0 V to 32.99 V	9 µV/V + 15 µV
30 V to 329.99 V	14 µV/V + 110 µV
100 V to 1020 V	14 µV/V + 1100 µV

Thermocouple measurement reference junction at 0 °C. As per DC Voltage CMC's using the tables outlined in appendix D of "Traceable Temperatures" second edition.

(b) AC voltmeters

1 mV to 32.99 mV	10 Hz to 45 Hz	600 µV/V + 4.5 µV
	45 Hz to 10 kHz	110 µV/V + 4.5 µV
	10 kHz to 20 kHz	150 µV/V + 4.5 µV
	20 kHz to 50 kHz	760 µV/V + 4.5 µV
	50 kHz to 100 kHz	2600 µV/V + 9 µV
	100 kHz to 500 kHz	6000 µV/V + 38 µV
33 mV to 329.99 mV	10 Hz to 45 Hz	220 µV/V + 6 µV
	45 Hz to 10 kHz	110 µV/V + 6 µV
	10 kHz to 20 kHz	120 µV/V + 6 µV
	20 kHz to 50 kHz	260 µV/V + 6 µV
	50 kHz to 100 kHz	600 µV/V + 24 µV
	100 kHz to 500 kHz	1500 µV/V + 53 µV
0.33 V to 3.299 V	10 Hz to 45 Hz	220 µV/V + 38 µV
	45 Hz to 10 kHz	110 µV/V + 46 µV
	10 kHz to 20 kHz	140 µV/V + 46 µV
	20 kHz to 50 kHz	220 µV/V + 38 µV
	50 kHz to 100 kHz	530 µV/V + 95 µV
	100 kHz to 500 kHz	1800 µV/V + 450 µV
3.3 V to 32.99 V	10 Hz to 45 Hz	220 µV/V + 490 µV
	45 Hz to 10 kHz	110 µV/V + 450 µV
	10 kHz to 20 kHz	180 µV/V + 450 µV

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		20 kHz to 50 kHz	260 µV/V + 450 µV
		50 kHz to 100 kHz	680 µV/V + 1200 µV
	33 V to 329.99 V	45 Hz to 1 kHz	140 µV/V + 1500 µV
		1 kHz to 10 kHz	150 µV/V + 4500 µV
		10 kHz to 20 kHz	190 µV/V + 4500 µV
		20 kHz to 50 kHz	220 µV/V + 4500 µV
		50 kHz to 100 kHz	1500 µV/V + 37000 µV
	330 V to 1020 V	45 Hz to 1 kHz	220 µV/V + 7500 µV
		1 kHz to 5 kHz	190 µV/V + 7500 µV
		5 kHz to 10 kHz	220 µV/V + 7500 µV
(c)	DC ammeters		
Including negative values			
	0 A to 329.99 µA		110 µA/A + 0.015 µA
	0 A to 3.299 mA		76 µA/A + 0.038 µA
	0 A to 32.99 mA		76 µA/A + 0.19 µA
	0 A to 329.99 mA		76 µA/A + 1.9 µA
	0 A to 1.099 A		150 µA/A + 30 µA
	1.1 A to 2.99 A		280 µA/A + 30 µA
	0 A to 10.99 A		380 µA/A + 370 µA
	11 A to 20.5 A		760 µA/A + 560 µA
DC Current with a 50-turn coil			
	-16.499 A to 16.499 A		3800 µA/A + 15000 µA
	-149.99 A to 149.99 A		3800 µA/A + 100000 µA
	-549.99 A to 549.99 A		3800 µA/A + 380000 µA
	-1025 A to 1025 A		3800 µA/A + 380000 µA
(d)	AC ammeters		
	29 µA to 329.99 µA	10 Hz to 20 Hz	1500 µA/A + 0.08 µA
		20 Hz to 45 Hz	1100 µA/A + 0.08 µA
		45 Hz to 1 kHz	950 µA/A + 0.08 µA
		1 kHz to 5 kHz	2200 µA/A + 0.11 µA
		5 kHz to 10 kHz	6000 µA/A + 0.15 µA
		10 kHz to 30 kHz	12000 µA/A + 0.3 µA
	0.33 mA to 3.299 mA	10 Hz to 20 Hz	1500 µA/A + 0.11 µA
		20 Hz to 45 Hz	950 µA/A + 0.11 µA
		45 Hz to 1 kHz	760 µA/A + 0.11 µA
		1 kHz to 5 kHz	1500 µA/A + 0.15 µA
		5 kHz to 10 kHz	3700 µA/A + 0.23 µA
		10 kHz to 30 kHz	7500 µA/A + 0.46 µA

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3.3 mA to 32.99 mA	10 Hz to 20 Hz	1300 µA/A + 2 µA
	20 Hz to 45 Hz	680 µA/A + 2 µA
	45 Hz to 1 kHz	300 µA/A + 2 µA
	1 kHz to 5 kHz	600 µA/A + 2 µA
	5 kHz to 10 kHz	1500 µA/A + 3 µA
	10 kHz to 30 kHz	3000 µA/A + 4 µA
33 mA to 329.99 mA	10 Hz to 20 Hz	1300 µA/A + 15 µA
	20 Hz to 45 Hz	680 µA/A + 15 µA
	45 Hz to 1 kHz	300 µA/A + 15 µA
	1 kHz to 5 kHz	760 µA/A + 38 µA
	5 kHz to 10 kHz	1500 µA/A + 76 µA
	10 kHz to 30 kHz	3000 µA/A + 150 µA
0.33 A to 1.099 A	10 Hz to 45 Hz	1300 µA/A + 76 µA
	45 Hz to 1 kHz	380 µA/A + 76 µA
	1 kHz to 5 kHz	4500 µA/A + 760 µA
	5 kHz to 10 kHz	18000 µA/A + 3700 µA
1.1 A to 2.99 A	10 Hz to 45 Hz	1300 µA/A + 76 µA
	45 Hz to 1 kHz	450 µA/A + 76 µA
	1 kHz to 5 kHz	4500 µA/A + 760 µA
	5 kHz to 10 kHz	18000 µA/A + 3700 µA
3 A to 10.99 A	45 Hz to 100 Hz	450 µA/A + 1500 µA
	100 Hz to 1 kHz	760 µA/A + 1500 µA
	1 kHz to 5 kHz	22000 µA/A + 1500 µA
11 A to 20.5 A	45 Hz to 100 Hz	900 µA/A + 3700 µA
	100 Hz to 1 kHz	1100 µA/A + 3700 µA
	1 kHz to 5 kHz	22000 µA/A + 3700 µA
AC Current with a 50-turn coil		
10 A to 16.499 A	45 Hz to 65 Hz	2200 µA/A + 2700 µA
	65 Hz to 100 Hz	6000 µA/A + 2700 µA
	100 Hz to 440 Hz	6100 µA/A + 4400 µA
16.5 A to 149.99 A	45 Hz to 65 Hz	2300 µA/A + 20000 µA
	65 Hz to 100 Hz	6000 µA/A + 21000 µA
	100 Hz to 440 Hz	6400 µA/A + 43000 µA
150 A to 1025 A	45 Hz to 65 Hz	2300 µA/A + 100000 µA
	65 Hz to 100 Hz	6000 µA/A + 100000 µA
	100 Hz to 440 Hz	9600 µA/A + 200000 µA

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(i) Ohmmeters

Resistance – Floor value reflects 12 hrs ± 1 °C limits since last ohms zero.

0 Ω to 10.99 Ω	30 μΩ/Ω + 0.0008 Ω
11 Ω to 32.99 Ω	23 μΩ/Ω + 0.0011 Ω
33 Ω to 109.99 Ω	21 μΩ/Ω + 0.0011 Ω
110 Ω to 329.99 Ω	21 μΩ/Ω + 0.0015 Ω
330 Ω to 1.099 kΩ	21 μΩ/Ω + 0.0015 Ω
1.1 kΩ to 3.299 kΩ	21 μΩ/Ω + 0.015 Ω
3.3 kΩ to 10.99 kΩ	21 μΩ/Ω + 0.015 Ω
11 kΩ to 32.99 kΩ	21 μΩ/Ω + 0.15 Ω
33 kΩ to 109.99 kΩ	21 μΩ/Ω + 0.15 Ω
110 kΩ to 329.99 kΩ	24 μΩ/Ω + 1.5 Ω
330 kΩ to 1.099 MΩ	24 μΩ/Ω + 1.5 Ω
1.1 MΩ to 3.299 MΩ	46 μΩ/Ω + 22 Ω
3.3 MΩ to 10.99 MΩ	99 μΩ/Ω + 38 Ω
11 MΩ to 32.99 MΩ	190 μΩ/Ω +1800 Ω
33 MΩ to 109.99 MΩ	380 μΩ/Ω + 2200 Ω
110 MΩ to 330 MΩ	2200 μΩ/Ω + 75000 Ω

Resistance Based thermometry. As per resistance CMC's using the tables outlined in appendix C of "Traceable Temperatures" second edition.

(j) LCR meters

Capacitance

220 pF to 399.9 pF	10 Hz to 10 kHz	3700 μF/F + 0.0000076 μF
0.4 nF to 1.099 nF	10 Hz to 10 kHz	3700 μF/F + 0.0000076 μF
1.1 nF to 3.299 nF	10 Hz to 3 kHz	3700 μF/F + 0.0000076 μF
3.3 nF to 10.99 nF	10 Hz to 1 kHz	1800 μF/F + 0.0000076 μF
11 nF to 32.99 nF	10 Hz to 1 kHz	1800 μF/F + 0.000076 μF
33 nF 109.99 nF	10 Hz to 1 kHz	1800 μF/F + 0.000076 μF
110 nF to 329.99 nF	10 Hz to 1 kHz	1800 μF/F + 0.00022 μF
0.33 μF to 1.099 μF	10 Hz to 600 Hz	1800 μF/F + 0.00076 μF
1.1 μF to 3.299 μF	10 Hz to 300 Hz	1800 μF/F + 0.0022 μF
3.3 μF to 10.99 μF	10 Hz to 150 Hz	1800 μF/F + 0.0076 μF
11 μF to 32.99 μF	10 Hz to 120 Hz	3000 μF/F + 0.022 μF
33 μF to 109.99 μF	10 Hz to 80 Hz	3400 μF/F + 0.076 μF
110 μF to 329.99 μF	0 Hz to 50 Hz	3400 μF/F + 0.22 μF
0.33 mF to 1.099 mF	0 Hz to 20 Hz	3400 μF/F + 0.76 μF
1.1 mF to 3.299 mF	0 Hz to 6 Hz	3400 μF/F + 2.2 μF
3.3 mF to 10.99 mF	0 Hz to 2 Hz	3400 μF/F + 7.6 μF
11 mF to 32.99 mF	0 Hz to 0.6 Hz	5600 μF/F + 22 μF
33 mF to 110 mF	0 Hz to 0.2 Hz	8300 μF/F + 76 μF

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(q) Other specified devices

Frequency meters

10 Hz to 2.000 MHz	1.9 µHz/Hz + 3.8 µHz

Note 1:
Unless stated otherwise the CMC is based on the performance of the best available device and measurement uncertainties achieved for specific calibrations may be greater than the CMC Uncertainty. A laboratory may not report measurement uncertainties lower than its CMC. However, if the device under calibration has a greater accuracy than the device used to calculate the CMC the laboratory may be able to use the calibration data to lower its CMC Uncertainty. Please contact the laboratory to discuss your specific requirements.

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