



CERTIFICATE OF ACCREDITATION

This is to attest that

INTERTEK TESTING SERVICES NA, LTD.

1500 BRIGANTINE DRIVE
COQUITLAM, BRITISH COLUMBIA, V3K 7C1, CANADA

Calibration Laboratory CL-102

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date August 3, 2021

Expiration Date January 1, 2026



A handwritten signature in black ink that reads "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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INTERTEK TESTING SERVICES NA, LTD.

www.intertek.com

Contact Name Peter Gildenstern

Contact Phone +1-604-528-8715

Accredited to ISO/IEC 17025:2017

Effective Date August 3, 2021

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
Dimensional			
Length Dial Indicators Calipers	0 in to 2 in 2 in to 6 in	0.0011 in 0.0011 in	WI-L-CA-Cali-1393 Gauge Blocks
Mechanical			
Force – Compression (Structural Wood Bending & Compression Testers)	1 lbf to 50 lbf 50 to 50,000 lbf 50,000 lbf to 200,000 lbf	0.1 % 0.32 % 0.54 %	ASTM E4, Load Cell WI-L-CA-Cali-1387 WI-L-CA-Cali-1388
Force – Tension (Structural Wood Tension Testers)	1 lbf to 100,000 lbf	710 lbf	WI-L-CA-Cali-1389 WI-L-CA-Cali-1390 WI-L-CA-Cali-1391 WI-L-CA-Cali-1393
Electrical – DC/LF			
DC Voltage – Generate ³	0 mV to 329.9999 mV 0 V to 3.299999 V 0 V to 32.99999 V 30 V to 329.9999 V 100 V to 1000.000 V	20 µV/V + 1 µV 11 µV/V + 2 µV 12 µV/V + 20 µV 18 µV/V + 150 µV 18 µV/V + 1500 µV	WI-L-CA-Cali-1402 Fluke 5522A
DC Current – Generate ³	0 µA to 329.999 µA 0 mA to 3.29999 mA 0 mA to 32.9999 mA 0 mA to 329.999 mA 0 to 1.09999 A 1.1 A to 2.99999 A 0 A to 10.9999 A	150 µA/A + 0.02 µA 100 µA/A + 0.05 µA 100 µA/A + 0.25 µA 100 µA/A + 2.5 µA 200 µA/A + 40 µA 380 µA/A + 40 µA 500 µA/A + 500 µA	WI-L-CA-Cali-1402 Fluke 5522A
	10 A to 150 A 150 A to 1000 A	0.25 % + 0.02 A 0.25 % + 0.05 A	WI-L-CA-Cali-1402 Fluke 5522A w/50 Turn Coil

* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (\pm)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Voltage – Generate ³	1.0 mV to 32.999 mV (10 Hz to 45 Hz)	800 μ V/V + 6 μ V	WI-L-CA-Cali-1402 Fluke 5522A
	(45 Hz to 10 kHz)	150 μ V/V + 6 μ V	
	(10 kHz to 20 kHz)	200 μ V/V + 6 μ V	
	(20 kHz to 50 kHz)	1000 μ V/V + 6 μ V	
	(50 kHz to 100 kHz)	3500 μ V/V + 12 μ V	
	(100 kHz to 500 kHz)	8000 μ V/V + 50 μ V	
	33 mV to 329.999 mV (10 Hz to 45 Hz)	300 μ V/V + 8 μ V	
	(45 Hz to 10 kHz)	145 μ V/V + 8 μ V	
	(10 kHz to 20 kHz)	160 μ V/V + 8 μ V	
	(20 kHz to 50 kHz)	350 μ V/V + 8 μ V	
	(50 kHz to 100 kHz)	800 μ V/V + 32 μ V	
	(100 kHz to 500 kHz)	2000 μ V/V + 70 μ V	
0.33 V to 3.29999 V (10 Hz to 45 Hz)	300 μ V/V + 50 μ V		
(45 Hz to 10 kHz)	150 μ V/V + 60 μ V		
(10 kHz to 20 kHz)	190 μ V/V + 60 μ V		
(20 kHz to 50 kHz)	300 μ V/V + 50 μ V		
(50 kHz to 100 kHz)	700 μ V/V + 125 μ V		
(100 kHz to 500 kHz)	2400 μ V/V + 600 μ V		
3.3 V to 32.9999 V (10 Hz to 45 Hz)	300 μ V/V + 650 μ V		
(45 Hz to 10 kHz)	150 μ V/V + 600 μ V		
(10 kHz to 20 kHz)	240 μ V/V + 600 μ V		
(20 kHz to 50 kHz)	350 μ V/V + 600 μ V		
(50 kHz to 100 kHz)	900 μ V/V + 1600 μ V		
33 V to 329.999 V (10 Hz to 45 Hz)	190 μ V/V + 2 mV		
(45 Hz to 10 kHz)	200 μ V/V + 6 mV		
(10 kHz to 20 kHz)	250 μ V/V + 6 mV		
(20 kHz to 50 kHz)	300 μ V/V + 6 mV		
(50 kHz to 100 kHz)	2000 μ V/V + 50 mV		
330 V to 1020 V (45 Hz to 1 kHz)	300 μ V/V + 10 mV		
(1 kHz to 5 kHz)	250 μ V/V + 10 mV		
(5 kHz to 10 kHz)	300 μ V/V + 10 mV		

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AC Current – Generate ³	30 µA to 330 µA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz)	0.2 % + 0.1 µA 0.15 % + 0.1 µA 0.125 % + 0.1 µA 0.3 % + 0.15 µA 0.8 % + 0.2 µA 1.6 % + 0.4 µA	WI-L-CA-Cali-1402 Fluke 5522A, LCOMP off
	330 µA to 3.3 mA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz)	0.2 % + 0.15 µA 0.125 % + 0.15 µA 0.1 % + 0.15 µA 0.2 % + 0.2 µA 0.5 % + 0.3 µA 1.0 % + 0.6 µA	
	3.3 mA to 33 mA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz)	0.18 % + 2 µA 0.09 % + 2 µA 0.04 % + 2 µA 0.08 % + 2 µA 0.2 % + 3 µA 0.4 % + 4 µA	
	33 mA to 330 mA (10 Hz to 20 Hz) (20 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz) (10 kHz to 30 kHz)	0.18 % + 20 µA 0.09 % + 20 µA 0.04 % + 20 µA 0.10 % + 50 µA 0.2 % + 100 µA 0.4 % + 200 µA	
	330 mA to 1.1 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.18 % + 0.1 mA 0.05 % + 0.1 mA 0.6 % + 1 mA 2.5 % + 5 mA	
	1.1 A to 3 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.18 % + 0.1 mA 0.06 % + 0.1 mA 0.6 % + 1 mA 2.5 % + 5 mA	
	3 A to 11 A (45 Hz to 100 Hz) (100 Hz to 1 kHz) (1 kHz to 5 kHz)	0.06 % + 2 mA 0.10 % + 2 mA 3 % + 2 mA	

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AC Current – Generate ³ continued	11 A to 20.5 A (45 Hz to 100 Hz) (100 Hz to 1 kHz) (1 kHz to 5 kHz)	0.12 % + 5 mA 0.15 % + 5 mA 3 % + 5 mA	WI-L-CA-Cali-1402 Fluke 5522A, LCOMP off
	20 A to 1000A (45 Hz to 440Hz)	0.28 % + 0.11 A	WI-L-CA-Cali-1402 Fluke 5522A w/50 Turn Coil
DC Resistance – Generate ³	0 Ω to 11 Ω	40 μΩ/Ω + 1 mΩ	WI-L-CA-Cali-1402 Fluke 5522A
	11 Ω to 33 Ω	30 μΩ/Ω + 1.5 mΩ	
	33 Ω to 110 Ω	28 μΩ/Ω + 1.4 mΩ	
	110 Ω to 330 Ω	28 μΩ/Ω + 2 mΩ	
	330 Ω to 1.1 kΩ	28 μΩ/Ω + 2 mΩ	
	1.1 kΩ to 3.3 kΩ	28 μΩ/Ω + 0.02 Ω	
	3.3 kΩ to 11 kΩ	28 μΩ/Ω + 0.02 Ω	
	11 kΩ to 33 kΩ	28 μΩ/Ω + 0.2 Ω	
	33 kΩ to 110 kΩ	28 μΩ/Ω + 0.2 Ω	
	110 kΩ to 330 kΩ	32 μΩ/Ω + 2 Ω	
	330 kΩ to 1.1 MΩ	32 μΩ/Ω + 2 Ω	
	1.1 MΩ to 3.3 MΩ	60 μΩ/Ω + 30 Ω	
	3.3 MΩ to 11 MΩ	0.013 % + 50 Ω	
	11 MΩ to 33 MΩ	0.025 % + 2.5 kΩ	
33 MΩ to 110 MΩ	0.05 % + 3 kΩ		
110 MΩ to 1.1 GΩ	1.5 % + 500 kΩ		
DC Voltage – Measure ⁴	Up to 100 mV	37 μV/V + 35 μV	WI-L-CA-Cali-1402 Fluke 8846A
	100 mV to 1 V	25 μV/V + 7 μV	
	1 V to 10 V	24 μV/V + 50 μV	
	10 V to 100 V	38 μV/V + 600 μV	
	100 V to 1000 V	41 μV/V + 10 mV	
	Up to 10 kV	0.03 % + 0.035 V	
	10 kV to 100kV	0.05 % + 0.35 V	WI-L-CA-Cali-1402 Vitretek 4700, HVL-100
DC Current Measure ⁴	up to 100 μA	0.05 % + 0.025 μA	WI-L-CA-Cali-1402 Fluke 8846A
	100 μA to 1 mA	0.05 % + 0.05 μA	
	1 mA to 10 mA	0.05 % + 2 μA	
	10 mA to 100 mA	0.05 % + 5 μA	
	100 mA to 400 mA	0.05 % + 20 μA	
	400 mA to 1 A	0.05 % + 200 μA	
	1 A to 3 A	0.1 % + 600 μA	
	3 A to 10 A	0.15 % + 800 μA	
AC Voltage – Measure ⁴	up to 100 mV (3 Hz to 5 Hz)	1.0 % + 0.04 mV	WI-L-CA-Cali-1402 Fluke 8846A
	(5 Hz to 10 Hz)	0.35 % + 0.04 mV	
	(10 Hz to 20 kHz)	0.06 % + 0.04 mV	
	(20 kHz to 50 kHz)	0.12 % + 0.05 mV	
	(50 kHz to 100 kHz)	0.6 % + 0.08 mV	
	(100 kHz to 300 kHz)	4.0 % + 0.50 mV	

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AC Voltage – Measure ⁴ continued	100 mV to 1 V (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz)	1.0 % + 0.3 mV 0.35 % + 0.3 mV 0.06 % + 0.3 mV 0.12 % + 0.5 mV 0.6 % + 0.8 mV 4.0 % + 5 mV	WI-L-CA-Cali-1402 Fluke 8846A (cont'd.)		
	1 V to 10 V (3 to 5 Hz) (5 to 10 Hz) (10 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz)	1.0 % + 3 0.35 % + 3 0.06 % + 3 mV 0.12 % + 5 mV 0.6 % + 8 mV 4.0 % + 50 mV			
	10 V to 100 V (3 to 5 Hz) (5 to 10 Hz) (10 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz)	1.0 % + 30 mV 0.35 % + 30 mV 0.06 % + 30 mV 0.12 % + 50 mV 0.6 % + 80 mV 4.0 % + 500 mV			
	100 V to 1000 V (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 20 kHz)	1.0 % + 225 mV 0.35 % + 225 mV 0.06 % + 225 mV			
	100 V to 1000 V (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz)	0.12 % + 375 mV 0.6 % + 600 mV 4.0 % + 3750 mV			
	Up to 10 kV (30 Hz to 200 Hz) (200 Hz to 450 Hz)	0.12 % + 0.15 V 0.4 % + 0.15 V		WI-L-CA-Cali-1402 Vitretek 4700	
	10 kV to 75 kV (30 Hz to 70 Hz) (70 Hz to 200 Hz)	0.12 % + 0.65 V 1 % + 0.65 V		WI-L-CA-Cali-1402 Vitretek 4700, HVL-100	
	AC Current – Measure ⁴	5 µA to 100 µA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)		1.1 % + 0.06 µA 0.35 % + 0.06 µA 0.15 % + 0.06 µA 0.35 % + 0.7 µA	WI-L-CA-Cali-1402 Fluke 8846A
		100 µA to 1 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz)		1.0 % + 0.4 µA 0.3 % + 0.4 µA	

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AC Current – Measure ⁴ continued	100 µA to 1 mA (10 Hz to 5 kHz) (5 to 10 kHz)	0.1 % + 0.4 µA 0.2 % + 2.5 µA	WI-L-CA-Cali-1402 Fluke 8846A
	1 mA to 10 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.1 % + 6 µA 0.35 % + 6 µA 0.15 % + 6 µA 0.35 % + 70 µA	
	10 mA to 100 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.0 % + 40 µA 0.3 % + 40 µA 0.1 % + 40 µA 0.2 % + 250 µA	
	100 mA to 400 mA (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.0 % + 400 µA 0.3 % + 400 µA 0.1 % + 400 µA 0.2 % + 2.8 mA	
	400 mA to 1A (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.0 % + 400 µA 0.3 % + 400 µA 0.1 % + 400 µA 0.35 % + 7 mA	
	1A to 3A (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.1 % + 1.8 mA 0.35 % + 1.8 mA 0.15 % + 1.8 mA 0.35 % + 21 mA	
	3 A to 10 A (3 Hz to 5 Hz) (5 Hz to 10 Hz) (10 Hz to 5 kHz) (5 kHz to 10 kHz)	1.1 % + 6 mA 0.35 % + 6 mA 0.15 % + 6 mA 0.35 % + 70 mA	

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Resistance – Measure ⁴	Up to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ	0.01 % + 3 mΩ 0.01 % + 4 mΩ 0.01 % + 0.01 Ω 0.01 % + 0.1 Ω 0.01 % + 1 Ω 0.01 % + 10 Ω 0.04 % + 100 Ω 0.8 % + 10 kΩ 2.0 % + 100 kΩ	WI-L-CA-Cali-1402 Fluke 8846A
Capacitance – Generate ^{3,5}	(10 Hz to 10 kHz) 0.22 nF to 0.4 nF 0.4 nF to 1.1 nF (10 Hz to 3 kHz) 1.1 nF to 3.3 nF (10 Hz to 1 kHz) 3.3 nF to 11 nF 11 nF to 33 nF 33 nF to 110 nF 110 nF to 330 nF (10 Hz to 600 Hz) 330 nF to 1.1 μF (10 Hz to 300 Hz) 1.1 μF to 3.3 μF (10 Hz to 150 Hz) 3.3 μF to 11 μF (10 Hz to 120 Hz) 11 μF to 33 μF (10 Hz to 80 Hz) 33 μF to 110 μF (0 Hz to 50 Hz) 110 μF to 330 μF (0 Hz to 20 Hz) 330 μF to 1.1 mF (0 Hz to 6 Hz) 1.1 mF to 3.3 mF (0 Hz to 2 Hz) 3.3 mF to 11 mF	0.5 % + 0.01 nF 0.5 % + 0.01 nF 0.5 % + 0.01 nF 0.25 % + 0.01 nF 0.25 % + 0.1 nF 0.25 % + 0.1 nF 0.25 % + 0.3 nF 0.25 % + 1 nF 0.25 % + 3 nF 0.25 % + 10 nF 0.40 % + 30 nF 0.45 % + 100 nF 0.45 % + 300 nF 0.45 % + 1 μF 0.45 % + 3 μF 0.45 % + 10 μF	WI-L-CA-Cali-1402 Fluke 5522A

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Capacitance – Generate ^{3,5} (cont'd.)	(0 Hz to 0.6 Hz) 11 mF to 33 mF	0.75 % + 30 µF	WI-L-CA-Cali-1402 Fluke 5522A (cont'd.)
	(0 Hz to 0.2 Hz) 33 mF to 110 mF	1.1 % + 100 µF	
Temperature Simulation - Thermocouple Indicators & Sources			WI-L-CA-Cali-1402 Fluke 5522A
Type E	-250 °C to -100 °C	0.5 °C	
	-100 °C to -25 °C	0.16 °C	
	-25 °C to 350 °C	0.14 °C	
	350 °C to 650 °C	0.16 °C	
	650 °C to 1000 °C	0.21 °C	
Type J	-210 °C to -100 °C	0.27 °C	
	-100 °C to -30 °C	0.16 °C	
	-30 °C to 150 °C	0.14 °C	
	150 °C to 760 °C	0.17 °C	
	760 °C to 1200 °C	0.23 °C	
Type K	-200 °C to -100 °C	0.33 °C	
	-100 °C to -25 °C	0.18 °C	
	-25 °C to 120 °C	0.16 °C	
	120 °C to 1000 °C	0.26 °C	
	1000 °C to 1372 °C	0.4 °C	
Type N	-200 °C to -100 °C	0.23 °C	
	-100 °C to -25 °C	0.23 °C	
	-25 °C to 120 °C	0.20 °C	
	120 °C to 410 °C	0.20 °C	
	410 °C to 1300 °C	0.28 °C	
Type T	-250 °C to -150 °C	0.63 °C	
	-150 °C to 0 °C	0.24 °C	
	0 °C to 120 °C	0.16 °C	
	120 °C to 400 °C	0.14 °C	
Temperature Simulation – RTD Indicators & Sources			WI-L-CA-Cali-1402 Fluke 5522A Fluke 8846A
RTD, Pt 385 (100 Ω)	-200 °C to 799 °C	0.076 °C	
RTD, Pt 385 (500 Ω)	-190 °C to 630 °C	0.11 °C	
RTD, Pt 385 (1000 Ω)	-190 °C to 630 °C	0.23 °C	

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¹The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

²When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

³Capability is suitable for the calibration of measuring devices in the stated ranges.

⁴Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

⁵The actual frequency applied by the calibrator cannot be selected and may be dependent on the measurement device under calibration. Approximate frequency ranges for a given capacitance or capacitance range may be found in the Fluke 5522A's published specifications.