



# 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 October 30, 2023

Expiration Date January 1, 2026



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## INTERTEK TESTING SERVICES NA, LTD.

[www.intertek.com](http://www.intertek.com)

**Contact Name** Peter Gildenstern

**Contact Phone** +1-604-528-8715

*Accredited to ISO/IEC 17025:2017*

*Effective Date October 30, 2023*

### CALIBRATION AND MEASUREMENT CAPABILITY (CMC)\*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<b>Dimensional</b>			
Length <sup>6</sup> 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
<b>Mechanical</b>			
Force – Compression <sup>6</sup> (Structural Wood Bending & Compression Testers)	1 lbf to 50 lbf 50 lbf 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 <sup>6</sup> (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
<b>Electrical – DC/LF</b>			
DC Voltage – Generate <sup>3</sup>	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 <sup>3</sup>	0 µA to 329.999 µA 0 mA to 3.299999 mA 0 mA to 32.99999 mA 0 mA to 329.999 mA 0 A 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 <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Voltage – Generate <sup>3</sup>	1.0 mV to 32.999 mV (10 Hz to 45 Hz)	800 µV/V + 6 µV	WI-L-CA-Cali-1402 Fluke 5522A
	(45 Hz to 10 kHz)	150 µV/V + 6 µV	
	(10 kHz to 20 kHz)	200 µV/V + 6 µV	
	(20 kHz to 50 kHz)	1000 µV/V + 6 µV	
	(50 kHz to 100 kHz)	3500 µV/V + 12 µV	
	(100 kHz to 500 kHz)	8000 µV/V + 50 µV	
	33 mV to 329.999 mV (10 Hz to 45 Hz)	300 µV/V + 8 µV	
	(45 Hz to 10 kHz)	145 µV/V + 8 µV	
	(10 kHz to 20 kHz)	160 µV/V + 8 µV	
	(20 kHz to 50 kHz)	350 µV/V + 8 µV	
	(50 kHz to 100 kHz)	800 µV/V + 32 µV	
	(100 kHz to 500 kHz)	2000 µV/V + 70 µV	
	0.33 V to 3.29999 V (10 Hz to 45 Hz)	300 µV/V + 50 µV	
	(45 Hz to 10 kHz)	150 µV/V + 60 µV	
	(10 kHz to 20 kHz)	190 µV/V + 60 µV	
	(20 kHz to 50 kHz)	300 µV/V + 50 µV	
	(50 kHz to 100 kHz)	700 µV/V + 125 µV	
	(100 kHz to 500 kHz)	2400 µV/V + 600 µV	
	3.3 V to 32.9999 V (10 Hz to 45 Hz)	300 µV/V + 650 µV	
	(45 Hz to 10 kHz)	150 µV/V + 600 µV	
(10 kHz to 20 kHz)	240 µV/V + 600 µV		
(20 kHz to 50 kHz)	350 µV/V + 600 µV		
(50 kHz to 100 kHz)	900 µV/V + 1600 µV		
33 V to 329.999 V (10 Hz to 45 Hz)	190 µV/V + 2 mV		
(45 Hz to 10 kHz)	200 µV/V + 6 mV		
(10 kHz to 20 kHz)	250 µV/V + 6 mV		
(20 kHz to 50 kHz)	300 µV/V + 6 mV		
(50 kHz to 100 kHz)	2000 µV/V + 50 mV		
330 V to 1020 V (45 Hz to 1 kHz)	300 µV/V + 10 mV		
(1 kHz to 5 kHz)	250 µV/V + 10 mV		
(5 kHz to 10 kHz)	300 µV/V + 10 mV		

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AC Current – Generate <sup>3</sup>	30 $\mu$ A to 330 $\mu$ A (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 $\mu$ A 0.15 % + 0.1 $\mu$ A 0.125 % + 0.1 $\mu$ A 0.3 % + 0.15 $\mu$ A 0.8 % + 0.2 $\mu$ A 1.6 % + 0.4 $\mu$ A	WI-L-CA-Cali-1402 Fluke 5522A, LCOMP off
	330 $\mu$ A 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 $\mu$ A 0.125 % + 0.15 $\mu$ A 0.1 % + 0.15 $\mu$ A 0.2 % + 0.2 $\mu$ A 0.5 % + 0.3 $\mu$ A 1.0 % + 0.6 $\mu$ A	
	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 $\mu$ A 0.09 % + 2 $\mu$ A 0.04 % + 2 $\mu$ A 0.08 % + 2 $\mu$ A 0.2 % + 3 $\mu$ A 0.4 % + 4 $\mu$ A	
	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 $\mu$ A 0.09 % + 20 $\mu$ A 0.04 % + 20 $\mu$ A 0.10 % + 50 $\mu$ A 0.2 % + 100 $\mu$ A 0.4 % + 200 $\mu$ A	
	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 <sup>3</sup> 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 1000 A (45 Hz to 440 Hz)	0.28 % + 0.11 A	WI-L-CA-Cali-1402 Fluke 5522A w/50 Turn Coil
DC Resistance – Generate <sup>3</sup>	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 <sup>4</sup>	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 100 kV	0.05 % + 0.35 V	WI-L-CA-Cali-1402 Vitretek 4700, HVL-100
DC Current Measure <sup>4</sup>	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 <sup>4</sup>	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 <sup>4</sup> 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 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 % + 3 mV 0.35 % + 3 mV 0.06 % + 3 mV 0.12 % + 5 mV 0.6 % + 8 mV 4.0 % + 50 mV		
	10 V to 100 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 % + 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) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz)	1.0 % + 225 mV 0.35 % + 225 mV 0.06 % + 225 mV 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
	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 <sup>4</sup> continued	100 µA to 1 mA (10 Hz to 5 kHz) (5 kHz 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 <sup>4</sup>	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 <sup>3,5</sup>	(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 <sup>3,5</sup> (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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<sup>1</sup>The 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.

<sup>2</sup>When 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.

<sup>3</sup>Capability is suitable for the calibration of measuring devices in the stated ranges.

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

<sup>5</sup>The 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.

<sup>6</sup> On Site Calibration Only