



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

**ARCHITECTURAL TESTING, INC.  
(AN INTERTEK COMPANY)**

130 DERRY COURT  
YORK, PENNSYLVANIA 17406-8405, U.S.A.

**Calibration Laboratory CL-118**

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 February 10, 2023

Expiration Date January 1, 2026



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

**President**

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## ARCHITECTURAL TESTING, INC. (AN INTERTEK COMPANY)

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

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*Accredited to ISO/IEC 17025:2017*

*Effective Date February 10, 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>			
Calipers	Up to 6 in 6 in to 12 in	590 µin 800 µin	Procedure WI-L-AMER-Cali-7962
Indicator	Up to 1 in 1 in to 2 in 2 in to 5 in	84 µin 580 µin 1200 µin	Procedure WI-L-AMER-Cali-7836
Micrometer	Up to 1 in 1 in to 3 in 3 in to 4 in	68 µin 160 µin 240 µin	Procedure WI-L-AMER-Cali-7962
Thickness Gage	Up to 0.5 in 0.5 in to 1 in	600 µin 650 µin	Procedure WI-L-AMER-Cali-7962
Rules and Tapes	Up to 42 in 42 in to 72 in	0.019 in 0.079 in	Procedure WI-L-AMER-Cali-7969
Linear transducers	Up to 20 in (4 mA to 20 mA output)	0.011 in (0.0090 mA)	Procedure WI-L-AMER-Cali-7837
	20 in to 40 in (4 mA to 20 mA output)	0.039 in (0.016 mA)	
<b>Mechanical</b>			
Scales	1 mg to 200 g 200 g to 510 g 510 g to 6000 g 0 lb. to 110 lb. 110 lb to 150 lb 150 lb to 500 lb	0.12 g 0.12 g 0.14 g 0.015 lb 0.016 lb 0.2 lb	Procedures ATI-CAL-22 ATI-CAL-28
Force gages (Tension and Compression)	Up to 20 lbf 20 lbf to 50 lbf 50 lbf to 200 lbf	0.30 lbf 0.012 lbf 0.55 lbf	Procedure ATI-CAL-02

\* 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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Force (Load Cells) – Tension and Compression	20 lbf to 1000 lbf 1000 lbf to 25000 lbf 25000 lbf to 50000 lbf	0.03 lbf 4.7 lbf 21 lbf	WI-L-AMER-Cali-7838
Pressure Gages	-13 psi to 0 psi 0 psi to 15 psi 15 psi to 30 psi 30 psi to 300 psi 300 psi to 3000 psi	0.65 psi 0.039 psi 0.31 psi 0.10 psi 0.33 psi	Procedure WI-L-AMER-Cali-7839
Pressure Loop Calibrators, Transducers, Transmitters	-5 psi to 5 psi	0.00021 psi	Procedures 31-18 31-35 ATI-CAL-12 ATI-CAL-48 ATI-CAL-49 ATI-CAL-52 ATI-CAL-56 ATI-CAL-57 ATI-CAL-60 ATI-CAL-61
Radar Guns	Up to 115 mph	0.15 mph	Procedure WI-L-AMER-Cali-7865
<b>Thermal</b>			
Simulated Temperature - Thermocouples			Procedures WI-L-AMER-Cali-7970 ATI-CAL-51 ATI-CAL-63
Type B	600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1550 °C 1550 °C to 1820 °C	0.44 °C 0.34 °C 0.30 °C 0.33 °C	
Type C	0 °C to 150 °C 150 °C to 650 °C 650 °C to 1000 °C 1000 °C to 1800 °C 1800 °C to 2316 °C	0.30 °C 0.26 °C 0.31 °C 0.50 °C 0.84 °C	
Type E	-250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C	0.50 °C 0.16 °C 0.14 °C 0.16 °C 0.21 °C	
Type J	-210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C	0.27 °C 0.16 °C 0.14 °C 0.17 °C 0.23 °C	

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Simulated Temperature - Thermocouples continued			Procedures WI-L-AMER-Cali-7970 ATI-CAL-51 ATI-CAL-63
Type K	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1372 °C	0.33 °C 0.18 °C 0.16 °C 0.26 °C 0.40 °C	
Type L	-200 °C to -100 °C -100 °C to 800 °C 800 °C to 900 °C	0.37 °C 0.26 °C 0.17 °C	
Type N	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C	0.40 °C 0.22 °C 0.19 °C 0.18 °C 0.27 °C	
Type R	0 °C to 250 °C 250 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1767 °C	0.57 °C 0.35 °C 0.33 °C 0.40 °C	
Type S	0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1400 °C 1400 °C to 1767 °C	0.47 °C 0.36 °C 0.37 °C 0.46 °C	
Type T	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.63 °C 0.24 °C 0.16 °C 0.14 °C	
Type U	-200 °C to 0 °C 0 °C to 600 °C	0.56 °C 0.27 °C	
Thermocouple Probes, all types	-30 °C to 950 °C	0.56 °C	Fluke Calibration Method ITS-90
Temperature and Humidity Sensors, Probes, Loggers, Meter	1 °C to 5 °C 5 °C to 60 °C 60 °C to 68.5 °C  10 %RH to 15 %RH 15 %RH to 95 %RH	0.20 °C 0.24 °C 0.19 °C  1.4 %RH 1.3 %RH	Procedure WI-L-AMER-Cali-7840

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY <sup>1,2</sup> (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<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 $\mu\text{V/V}$ + 1 $\mu\text{V}$ 11 $\mu\text{V/V}$ + 2 $\mu\text{V}$ 12 $\mu\text{V/V}$ + 20 $\mu\text{V}$ 18 $\mu\text{V/V}$ + 0.15 mV 18 $\mu\text{V/V}$ + 1.5 mV	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23, 31-24
AC Voltage - Generate <sup>3</sup>	1.0 mV to 32.999 mV (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 500 kHz)  33 mV to 329.999 mV (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 500 kHz)  0.33 V to 3.29999 V (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 500 kHz)  3.3 V to 32.9999 V (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz)  33 V to 329.999 V (10 Hz to 45 Hz) (45 Hz to 10 kHz) (10 kHz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz)	800 $\mu\text{V/V}$ + 6 $\mu\text{V}$ 150 $\mu\text{V/V}$ + 6 $\mu\text{V}$ 200 $\mu\text{V/V}$ + 6 $\mu\text{V}$ 0.1 % + 6 $\mu\text{V}$ 0.35 % + 12 $\mu\text{V}$ 0.8 % + 50 $\mu\text{V}$  300 $\mu\text{V/V}$ + 8 $\mu\text{V}$ 145 $\mu\text{V/V}$ + 8 $\mu\text{V}$ 160 $\mu\text{V/V}$ + 8 $\mu\text{V}$ 350 $\mu\text{V/V}$ + 8 $\mu\text{V}$ 800 $\mu\text{V/V}$ + 32 $\mu\text{V}$ 0.2 % + 70 $\mu\text{V}$  300 $\mu\text{V/V}$ + 50 $\mu\text{V}$ 150 $\mu\text{V/V}$ + 60 $\mu\text{V}$ 190 $\mu\text{V/V}$ + 60 $\mu\text{V}$ 300 $\mu\text{V/V}$ + 50 $\mu\text{V}$ 700 $\mu\text{V/V}$ + 0.13 mV 0.24 % + 0.6 mV  300 $\mu\text{V/V}$ + 0.65 mV 150 $\mu\text{V/V}$ + 0.60 mV 240 $\mu\text{V/V}$ + 0.60 mV 350 $\mu\text{V/V}$ + 0.60 mV 900 $\mu\text{V/V}$ + 1.6 mV  190 $\mu\text{V/V}$ + 2 mV 200 $\mu\text{V/V}$ + 6 mV 250 $\mu\text{V/V}$ + 6 mV 300 $\mu\text{V/V}$ + 6 mV 0.2 % + 50 mV	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23, 31-24

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AC Voltage - Generate <sup>3</sup> continued	330 V to 1020 V (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	300 $\mu\text{V}/\text{V}$ + 10 mV 250 $\mu\text{V}/\text{V}$ + 10 mV 300 $\mu\text{V}/\text{V}$ + 10 mV	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23 31-24
DC Current - Generate <sup>3</sup>	0 $\mu\text{A}$ to 329.999 $\mu\text{A}$ 0.33 mA to 3.29999 mA 3.3 mA to 32.9999 mA 33 mA to 329.999 mA 330 mA to 1.09999 A 1.1 A to 2.99999 A 3 A to 10.9999 A 11 A to 20.5 A	150 $\mu\text{A}/\text{A}$ + 0.02 $\mu\text{V}$ 100 $\mu\text{A}/\text{A}$ + 0.05 $\mu\text{V}$ 100 $\mu\text{A}/\text{A}$ + 0.25 $\mu\text{V}$ 100 $\mu\text{A}/\text{A}$ + 2.5 $\mu\text{V}$ 200 $\mu\text{A}/\text{A}$ + 40 $\mu\text{V}$ 380 $\mu\text{A}/\text{A}$ + 40 $\mu\text{V}$ 500 $\mu\text{A}/\text{A}$ + 500 $\mu\text{V}$ 0.1 % + 750 $\mu\text{V}$	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23 31-24
AC Current - Generate <sup>3</sup>	29.00 $\mu\text{A}$ to 329.99 $\mu\text{A}$ (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)  0.33 $\mu\text{A}$ to 3.2999 $\mu\text{A}$ (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)  3.3 $\mu\text{A}$ to 32.999 $\mu\text{A}$ (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)  33 $\mu\text{A}$ to 329.99 $\mu\text{A}$ (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 $\mu\text{A}$ 0.15 % + 0.1 $\mu\text{A}$ 0.125 % + 0.1 $\mu\text{A}$ 0.3 % + 0.15 $\mu\text{A}$ 0.8 % + 0.2 $\mu\text{A}$ 1.6 % + 0.4 $\mu\text{A}$  0.2 % + 0.15 $\mu\text{A}$ 0.125 % + 0.15 $\mu\text{A}$ 0.1 % + 0.15 $\mu\text{A}$ 0.2 % + 0.2 $\mu\text{A}$ 0.5 % + 0.3 $\mu\text{A}$ 1.0 % + 0.6 $\mu\text{A}$  0.18 % + 2 $\mu\text{A}$ 0.09 % + 2 $\mu\text{A}$ 0.04 % + 2 $\mu\text{A}$ 0.08 % + 2 $\mu\text{A}$ 0.2 % + 3 $\mu\text{A}$ 0.4 % + 4 $\mu\text{A}$  0.18 % + 20 $\mu\text{A}$ 0.09 % + 20 $\mu\text{A}$ 0.04 % + 20 $\mu\text{A}$ 0.10 % + 50 $\mu\text{A}$ 0.2 % + 100 $\mu\text{A}$ 0.4 % + 200 $\mu\text{A}$	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23 31-24

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AC Current - Generate <sup>3</sup> continued	0.33 A to 1.09999 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.18 % + 100 µA 0.05 % + 100 µA 0.6 % + 1 mA 2.5 % + 5 mA	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23 31-24
	1.1 A to 2.99999 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz) (5 kHz to 10 kHz)	0.18 % + 100 µA 0.06 % + 100 µA 0.6 % + 1 mA 2.5 % + 5 mA	
	3 A to 10.9999 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz)	0.06 % + 2 mA 0.10 % + 2 mA 3.0 % + 2 mA	
	11 A to 20.5 A (10 Hz to 45 Hz) (45 Hz to 1 kHz) (1 kHz to 5 kHz)	0.12 % + 5 mA 0.15 % + 5 mA 3.0 % + 5 mA	
DC Resistance - Generate <sup>3</sup>	0 Ω to 11 Ω	40 µΩ/Ω + 1 mΩ	Procedures WI-L-AMERI-Cali-7835 ATI-CAL-53 ATI-CAL-54 ATI-CAL-61 ATI-CAL-66 31-23 31-24
	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 1100 Ω	28 µΩ/Ω + 2 mΩ	
	1.1 kΩ to 3.3 kΩ	28 µΩ/Ω + 20 mΩ	
	3.3 kΩ to 11 kΩ	28 µΩ/Ω + 20 mΩ	
	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 1100 kΩ	32 µΩ/Ω + 2 Ω	
	1.1 MΩ to 3.3 MΩ	60 µΩ/Ω + 30 Ω	
	3.3 MΩ to 11 MΩ	130 µΩ/Ω + 50 Ω	
	11 MΩ to 33 MΩ	250 µΩ/Ω + 2.5 kΩ	
	33 MΩ to 110 MΩ	500 µΩ/Ω + 3 kΩ	
110 MΩ to 330 MΩ	3 mΩ/Ω + 100 kΩ		
330 MΩ to 1100 MΩ	15 mΩ/Ω + 500 kΩ		
<b>Time and Frequency</b>			
Stopwatches and Timers	1.0 s to 30s	0.12s	Procedure WI-L-AMER-Cali-7868
	30s to 1200s	0.14s	
	1200s to 1800s	0.54s	

<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.

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<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.