



CERTIFICATE OF ACCREDITATION

This is to attest that

KRC MEASUREMENT SOLUTIONS

1200 BILLY MITCHELL DRIVE, SUITE B
EL CAJON, CALIFORNIA 92020, U.S.A.

Calibration Laboratory CL-214

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 May 18, 2023

Expiration Date December 1, 2024



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

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

KRC MEASUREMENT SOLUTIONS

www.krcmts.com

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Accredited to ISO/IEC 17025:2017

Effective Date May 18, 2023

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (\pm)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
<i>Dimensional</i>			
Calipers	0.05 in to 3 in 3 in to 20 in 20 in to 40 in	(750 + 120L) μ in (590 + 19L) μ in (1800 – 10L) μ in Where L is in inches	Direct Comparison Gage Blocks and End Standards Procedure TM-PR-025
Micrometers	0.05 in to 3 in 3 in to 20 in 20 in to 40 in	(690 + 130L) μ in (530 + 20L) μ in 1400 μ in Where L is in inches	Direct Comparison Gage Blocks Procedure TN-PR-003
Height Gage	0.05 in to 3 in 3 in to 20 in 20 in to 40 in	300 μ in (190 + 32L) μ in (380 + 18L) μ in Where L is in inches	Direct Comparison Gage Blocks Procedure TN-PR-004
Indicators	0.05 in to 6 in	(71 + 17L) μ in where L is in inches	Direct Comparison Gage Blocks Procedure TN-PR-009
Depth Gages	0.05 in to 3 in 3 in to 20 in 20 in to 40 in	210 μ in (160 + 21L) μ in 910 μ in Where L is in inches	Direct Comparison Gage Blocks Procedure TN-PR-011
Rules	0.05 in to 40 in	0.0095 in	Direct Comparison Gage Blocks Procedure TN-PR-010
Pi-Tapes	12 in to 40 in	(410 + 5.4L) μ in Where L is in inches	Direct Comparison Gage Blocks and Tension using Class 1 Test Weights Procedure TM-PR-012

* 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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Optical Comparators Linearity	Up to 10 in travel	160 µin	Direct Comparison Glass Scale and Gage Blocks, Precision Ball Procedure TM-PR-001
Magnification	10X to 100X	0.012 %	
Mechanical			
Scales and Balances ³	0.001 g to 300 g 300 g to 1000 g 1 kg to 5 kg	0.33 mg 0.45 mg 2.8 mg	Direct Comparison Class 1 Test Weights Procedure TM-PR-013
Pressure Gauges ³	10 psi to 1000 psi 1000 psi to 10000 psi	3 psi 32 psi	Direct Comparison Pressure Gauge Procedure TM-PR-005
Torque Measurement Devices	25 lbf-ft to 250 lbf-ft	(0.67 + 0.01T) lbf-ft where T is in lbf-ft	Direct Comparison Torque Transducer Procedure TM-PR-008
Thermal			
Temperature Measure– System Accuracy Test ³ (Ovens, Furnaces)	Type J: 100 °F to 1000 °F 1000 °F to 1400 °F Type K: 100 °F to 1000 °F 1000 °F to 2000 °F 2000 °F to 2300 °F Type N: 100 °F to 1000 °F 1000 °F to 2200 °F Type T: 0 °F to 752 °F	2.4 °F 2.7 °F 2.5 °F 3.2 °F 4.4 °F 2.6 °F 4.6 °F 2.4 °F	Data Logger with Thermocouples per AMS- 2750 Procedure CAL-002 Rev A
Temperature Measure– Temperature Uniformity Survey ³ (Ovens, Furnaces)	Type J: 100 °F to 1000 °F 1000 °F to 1400 °F Type K: 100 °F to 1000 °F 1000 °F to 2000 °F	3.1 °F 3.3 °F 3.1 °F 3.7 °F	Data Logger with Thermocouples per AMS- 2750 Procedure CAL-003 Rev A

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Temperature Measure– Temperature Uniformity Survey ³ (Ovens, Furnaces) (continued)	2000 °F to 2300 °F Type N: 100 °F to 1000 °F 1000 °F to 2200 °F Type T: 0 °F to 752 °F	4.8 °F 3.1 °F 4.8 °F 3.0 °F	Data Logger with Thermocouples per AMS- 2750 Procedure CAL-003 Rev A
Electrical DC/LF			
Electrical Temperature Simulation - Thermocouples ³			Direct Comparison Process Calibrator Procedure CAL-001 Rev A
Type B	600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1800 °C	2.3 °C 2.0 °C 1.8 °C	
Type E	-200 °C to 0 °C 0 °C to 950 °C	0.85 °C 0.79 °C	
Type J	-200 °C to 0 °C 0 °C to 1200 °C	1.1 °C 0.76 °C	
Type K	-200 °C to 0 °C 0 °C to 1370 °C	1.2 °C 0.80 °C	
Type R	-20 °C to 0 °C 0 °C to 500 °C 500 °C to 1750 °C	2.8 °C 1.4 °C 1.7 °C	
Type S	-20 °C to 0 °C 0 °C to 500 °C 500 °C to 1750 °C	2.8 °C 1.5 °C 1.8 °C	
Type T	-200 °C to 0 °C 0 °C to 400 °C	0.89 °C 0.36 °C	
Type N	-200 °C to 0 °C 0 °C to 1300 °C	1.4 °C 0.81 °C	
Electrical Temperature Simulation - RTD			Direct Comparison Process Calibrator Procedure CAL-001 Rev A
PT100-385	-200 °C to 0 °C 0 °C to 800 °C	0.70 °C 0.83 °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.

³Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.