PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

KBS Engineering Services LLC

30746 Brush Street, Madison Heights, MI 48071

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Electrical and Thermodynamic Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
December 01, 2025	December 01, 2025	February 29, 2028

Accreditation No.:	*Certificate No.:*
132806	L25-895

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

KBS Engineering Services LLC

30746 Brush Street, Madison Heights, MI 48071
Contact Name: Karam Benjamin Phone: 518-253-3688

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Equipment to Measure DC Voltage	100 mV	0.02 % of Output + 0.005 mV	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Voltage	3 V	0.02 % of Output + 0.000 05 V	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Voltage	30 V	0.02 % of Output + 0.000 5 V	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Voltage	300 V	0.05 % of Output + 0.05 V	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Voltage	100 mV	0.005 % of Reading + 0.003 5 V	Agilent 34410 Digital multimeter - bench meter	5913269_A01_900EX Calibration Procedure and calibration procedures Handbook	F1, F3	O
Electrical	Equipment to Measure DC Voltage	1 V	0.004 % of Reading + 0.000 7 V	Agilent 34410 Digital multimeter -bench meter	5913269_A01_900EX Calibration Procedure and calibration procedures Handbook	F1, F3	O
Electrical	Equipment to Measure DC Voltage	10 V	0.003 5 % of Reading + 0.000 5 V	Agilent 34410 Digital multimeter -bench meter	5913269_A01_900EX Calibration Procedure and calibration procedures Handbook	F1, F3	O
Electrical	Equipment to Measure DC Voltage	100 V	0.004 5 % of Reading + 0.000 6 V	Agilent 34410 Digital multimeter - bench meter	5913269_A01_900EX Calibration Procedure and calibration procedures Handbook	F1, F3	O

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Electrical	Equipment to Measure DC Voltage	1 000 V	0.004 5 % of Reading + 0.001 V	Agilent 34410 Digital multimeter - bench meter	5913269_A01_900EX Calibration Procedure and calibration procedures Handbook	F1, F3	O
Electrical	Equipment to Generate DC Voltage	100 mV	0.01 % of Output + 0.005 mV	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Generate DC Voltage	1 V	0.01 % of Output + 0.000 05 V	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Generate DC Voltage	15 V	0.01 % of Output + 0.000 5 V	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Current	30 mA	0.01 % of Output + 5 µA	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Current	100 mA	0.01 % of Output + 20 µA	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure DC Current	-600 A to 600 A	0.001 73 % of Reading	LEM ITN-600-S	5913269_A01_900EX Calibration Procedure and calibration procedures Handbook	F1, F3	O
Electrical	Equipment to Generate DC Current	22.000 mA	0.01 % of Output + 3 µA	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure Resistance	10.000 Ω	0.05 % of Output + 0.05 Ω	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Electrical	Equipment to Measure Resistance	100.00 Ω	0.05 % of Output + 0.05 Ω	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure Resistance	1.0000 kΩ	0.05 % of Output + 0.000 5 k Ω	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Measure Resistance	10.000 kΩ	0.1 % of Output + 0.01 kΩ	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Generate Resistance	10.000 Ω	0.01 % of Output + 0.01 Ω	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Generate Resistance	100.00 Ω	0.01 % of Output + 0.02 Ω	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Generate Resistance	1.000 0 kΩ	0.02 % of Output + 0.000 2 kΩ	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to Generate Resistance	10.000 kΩ	0.02 % of Output + 0.003 k Ω	Fluke 754	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-210 °C to -100 °C	0.6 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-100 °C to 800 °C	0.3 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	800 °C to 1 200 °C	0.5 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to -100 °C	0.7 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to 400 °C	0.3 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	400 °C to 1 200 °C	0.5 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	1200 °C to 1 372 °C	0.7 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-250 °C to -200 °C	1.7 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-200 °C to 0 °C	0.6 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 400 °C	0.3 °C	Fluke 754 Electrical Simulation of Thermocouple Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (385)	-200 °C to 100 °C	0.07 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (385)	100 °C to 800 °C	0.02 % of Reading + 0.05 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (385)	-200 °C to 100 °C	0.2 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (385)	100 °C to 800 °C	0.015 % + 0.18 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 200 Ω Pt (385)	-200 °C to 100 °C	0.2 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1,F3	O

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Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 200 Ω Pt (385)	100 °C to 630 °C	0.015 % of Reading + 0.18 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 200 Ω Pt (385)	-200 °C to 100 °C	0.07 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 200 Ω Pt (385)	100 °C to 630 °C	0.02 % of Reading + 0.05 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 500 Ω Pt (385)	-200 °C to 100 °C	0.07 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 500 Ω Pt (385)	100 °C to 630 °C	0.02 % of Reading + 0.05 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 500 Ω Pt (385)	-200 °C to 100 °C	0.3 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 500 Ω Pt (385)	100 °C to 630 °C	0.015 % of Reading + 0.28 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 1000 Ω Pt (385)	-200 °C to 100 °C	0.07 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 1000 Ω Pt (385)	100 °C to 630 °C	0.02 % of Reading + 0.05 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 1000 Ω Pt (385)	-200 °C to 100 °C	0.2 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 1000 Ω Pt (385)	100 °C to 630 °C	0.015 % of Reading + 0.18 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3916)	-200 °C to 100 °C	0.07 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3916)	100 °C to 630 °C	0.02 % of Reading + 0.05 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3916)	-200 °C to 100 °C	0.2 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3916)	100 °C to 630 °C	0.015 % of Reading + 0.18 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3926)	-200 °C to 100 °C	0.08 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3926)	100 °C to 630 °C	0.02 % of Reading + 0.06 °C	Fluke 754 Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3926)	-200 °C to 100 °C	0.2 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Electrical	Equipment to measure Temperature Calibration, Indication and Control Equipment used with RTD 100 Ω Pt (3926)	100 °C to 630 °C	0.015 % of Reading + 0.18 °C	Fluke 712B Electrical Simulation of RTD Output	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Thermodynamic	Equipment to Measure Relative Humidity	Up to 90 %RH	1.5 %RH	Vaisala temperature & humidity indicator	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O
Thermodynamic	Equipment to Measure Relative Humidity	90 %RH to 100 %RH	2.5 %RH	Vaisala temperature & humidity indicator	SOP CAL 001 Environmental Chambers Calibration Procedure	F1, F3	O

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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
O	Conformity assessment activity is performed onsite at the CABs customer location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.