



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Scales, Sales and Service, LLC***  
8615 Vernon Avenue, Omaha, NE 68134

*(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:*

**ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

***Scales, Balances, Mass and Thermodynamic Calibration***  
*(As detailed in the supplement)*

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

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

*Initial Accreditation Date:*

March 5, 2005

*Revision Date:*

August 11, 2020

*Issue Date:*

March 24, 2019

*Accreditation No.:*

59316

*Expiration Date:*

July 31, 2021

*Certificate No.:*

L19-161-R1

*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.pjilabs.com](http://www.pjilabs.com)*



# Certificate of Accreditation: Supplement

## Scales, Sales and Service, LLC

8615 Vernon Avenue, Omaha, NE 68134  
 Contact Name: Shane Armendariz Phone: 402-572-1100

Accreditation is granted to the facility to perform the following calibrations:

### Mass Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Analytical Balances <sup>o</sup>	1 mg to 200 g	$(2 \times 10^{-4} + 2.36 \times 10^{-6}Wt)g$	Class 1 weights IES Procedure
	200 g to 800 g	$(1.15 \times 10^{-2} + 3.39 \times 10^{-7}Wt)g$	
	800 g to 6 000 g	$(1.15 \times 10^{-1} + 2.28 \times 10^{-7}Wt)g$	
	6 000 g to 10 000 g	$(1.15 + 6 \times 10^{-8}Wt)g$	
Bench Scales <sup>o</sup>	1 lb to 500 lb	$(1.16 + 2.73 \times 10^{-5}Wt)lb$	Class F Weights NIST Handbook 44
Crane Scales <sup>o</sup>	5 lb to 1 000 lb	$(2.31 + 2.73 \times 10^{-5}Wt)lb$	
	10 lb to 10 000 lb	$(11.55 + 2.73 \times 10^{-5}Wt)lb$	
Counting Scales <sup>o</sup>	1 lb to 50 lb	$(1.16 \times 10^{-2} + 2.78 \times 10^{-5}Wt)lb$	
	1 lb to 100 lb	$(5.77 \times 10^{-1} + 1.17 \times 10^{-6}Wt)lb$	
	1 lb to 5 000 lb	$(1.16 + 2.73 \times 10^{-5}Wt)lb$	
Floor Scales <sup>o</sup>	1 lb to 5 000 lb	$(1.16 + 2.73 \times 10^{-5}Wt)lb$	
	2 lb to 10 000 lb	$(2.31 + 9.47 \times 10^{-4}Wt)lb$	
	10 lb to 20 000 lb	$(5.77 + 2.22 \times 10^{-5}Wt)lb$	
Hopper Scales <sup>o</sup>	100 lb to 250 000 lb	$(57.73 + 2.22 \times 10^{-5}Wt)lb$	
Truck Scales <sup>o</sup>	250 lb to 240 000 lb	$(23.09 + 5.5 \times 10^{-5}Wt)lb$	
Railroad Track Scale <sup>s</sup>	2 500 lb to 400 000 lb	$(57.64 + 4.1 \times 10^{-5}Wt)lb$	
Test Weights <sup>F</sup>	1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 300, 500 (mg)	0.027 mg	Class 1 Weights Modified Substitution
	1, 2, 3, 5 (g)	0.06 mg	
	10 g	0.073 mg	
	20, 30 g	0.10 mg	
	50 g	0.21 mg	
	100 g	0.034 mg	
	200 g	0.6 mg	
	300 g	4.5 mg	
	500 g	4.8 mg	
	1 kg	5.4 mg	
	2 kg	6.1 mg	
	3 kg	9.8 mg	
	5 kg	30 mg	
	10 kg	39 mg	
25 kg	170 mg		



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Test Weights <sup>F</sup>	0.001, 0.002, 0.005 (lb)	0.030 mg	Class 1 Weights Modified Substitution
	0.01 lb	0.036 mg	
	0.02 lb	0.060 mg	
	0.05 lb	0.077 mg	
	0.1 lb	0.14 mg	
	0.2 lb	0.32 mg	
	0.5 lb	4.6 mg	
	1 lb	4.7 mg	
	2 lb	5.3 mg	
	5 lb	7.7 mg	
	10 lb	30 mg	
	25 lb	160 mg	
50 lb			

### Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Generation Ovens, Refrigerators Freezers and Chambers System Accuracy <sup>O</sup>	-200 °C to 670 °C	0.58 °C	Fluke 754/5906 CP03-Temp

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.



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### **Scales, Sales and Service, LLC**

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*Accreditation is granted to the facility to perform the following calibrations:*

3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this calibration at its fixed location.
4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer<sup>O</sup> would mean that the laboratory performs this calibration onsite at the customer's location.
5. 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.
6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.

