



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Accurate Calibration & Repair Service, Inc.***  
***1924 Pinnacle Drive, Aurora, IL 60502***

*(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):

***Calibration of Control Instruments***  
***(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/Operations Manager

*Initial Accreditation Date:*

January 17, 2003

*Issue Date:*

July 25, 2019

*Expiration Date:*

September 30, 2021

*Accreditation No:*

59048

*Certificate No:*

L19-376

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

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



# Certificate of Accreditation: Supplement

## Accurate Calibration & Repair Service, Inc.

1924 Pinnacle Drive, Aurora, IL 60502

Contact Name: Roy Halters Phone: 630-236-0439

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

### Electrical

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 Calibration, Indication, and Control Equipment used with Thermocouple Type J <sup>o</sup>	-30 °C to 150 °C	0.32 °C	Electrical Simulation of Thermocouple Output Memocal 2000 ACR 05, 06, & 07
	150 °C to 760 °C	0.35 °C	
	760 °C to 1 200 °C	0.37 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K <sup>o</sup>	-100 °C to -25 °C	0.32 °C	
	-25 °C to 120 °C	0.32 °C	
	120 °C to 1 000 °C	0.34 °C	
	1 000 °C to 1 372 °C	0.35 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N <sup>o</sup>	-25 °C to 120 °C	0.32 °C	
	120 °C to 410 °C	0.33 °C	
	410 °C to 1 300 °C	0.34 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R <sup>o</sup>	250 °C to 400 °C	0.33 °C	
	400 °C to 1 000 °C	0.38 °C	
	1 000 °C to 1 767 °C	0.46 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S <sup>o</sup>	250 °C to 1 000 °C	0.38 °C	
	1 000 °C to 1 400 °C	0.42 °C	
	1 400 °C to 1 767 °C	0.45 °C	
Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T <sup>o</sup>	-250 °C to 0 °C	0.33 °C	
	0 °C to 120 °C	0.32 °C	

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. 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.



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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.

