



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Global Calibration, LLC
1507-11 Smithtown Avenue, Bohemia, NY 11716

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

ISO/IEC 17025:2005

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 January 2009):

Electrical, Thermodynamic and Mechanical 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/Operations Manager

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

Initial Accreditation Date:

November 1, 2017

Extension Date:

March 30, 2020

Issue Date:

November 1, 2017

Accreditation No.:

85580

Expiration Date:

November 1, 2019

Certificate No.:

L17-460

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



Certificate of Accreditation: Supplement

Global Calibration, LLC

1507-11 Smithtown, Bohemia, NY 11716

Contact Name: Charles Mahoney Phone: 631-750-5663

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
Thermocouple Simulation Type N ^F	-200 °C to -100 °C	0.47 °C	Fluke 5500
	-100 °C to -25 °C	0.32 °C	
	-25 °C to 410 °C	0.3 °C	
	410 °C to 1 300 °C	0.36 °C	
Thermocouple Simulation Type K ^F	-200 °C to -100 °C	0.41 °C	
	-100 °C to -25 °C	0.3 °C	
	-25 °C to 120 °C	0.29 °C	
	120 °C to 1 000 °C	0.35 °C	
	1 000 °C to 1 372 °C	0.46 °C	
Thermocouple Simulation Type R ^F	0 °C to 250 °C	0.62 °C	
	250 °C to 400 °C	0.43 °C	
	400 °C to 1 000 °C	0.41 °C	
	1 000 °C to 1 767 °C	0.46 °C	
Thermocouple Simulation Type S ^F	0 °C to 250 °C	0.53 °C	
	250 °C to 1 000 °C	0.43 °C	
	1 000 °C to 1 400 °C	0.44 °C	
	1 400 °C to 1 767 °C	0.52 °C	
Thermocouple Simulation Type T ^F	-250 °C to -150 °C	0.67 °C	
	-150 °C to 0 °C	0.34 °C	
	0 °C to 120 °C	0.29 °C	
	120 °C to 400 °C	0.27 °C	

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
Type K Thermocouples ^F	50 °C to 660 °C	0.13 + (0.000 608T) °C	Dry Well, SPRT, & HP 3458
Type N Thermocouples ^F	50 °C to 660 °C	0.19 + (0.000 785T) °C	
Type T Thermocouples ^F	50 °C to 400 °C	0.13 + (0.000 737T) °C	
Temperature Measuring Systems ^F	-30 °C to 420 °C	0.015 °C	Fluke Dry Block & SPRT
Temperature Blocks ^F	-30 °C to 140 °C	0.015 °C	Fluke 1521 & SPRT
Temperature Chambers, Ovens, incubators ^O	-30 °C to 200 °C	0.93 °C	"T" Thermocouples & Readout



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

Mechanical

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
Pressure gauge ^{FO}	Up to 10 inWC	(0.006 3 + 0.000 012 9P) inWC	Ashcroft ATE & AQS1-10
	Up to 200 inWC	0.13 inWC	Ashcroft ATE & HQS1-200
	Up to 250 psig	(0.005 7 + 0.001 3P) psig	Druck DPI 310A
	250 to 1 250 psig	(0.005 5 + 0.001 2P) psig	
	1 250 to 6 250 psig	(0.009 1 + 0.001 1P) psig	
	6 250 to 12 500 psig	(0.078 + 0.001 4P) psig	

- 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.
- 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.
- The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
- The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
- The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
- 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.
- The term T represents temperature in degrees Celsius as appropriate to the uncertainty statement.



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

8. The term P represents pressure in pounds per square inch gage or inches of water column as appropriate to the uncertainty statement.

