



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

MX Industrial Distributors Inc.

181 Railroad Drive, Ivyland, PA 18974

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

ISO/IEC 17025:2017 & meets the requirements of ANSI Z540-1

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):

***Electrical, Mechanical, Thermodynamics, Time & Frequency, and Optical
Quantities Calibrations
(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

Initial Accreditation Date:

August 22, 2014

Issue Date:

December 23, 2022

Expiration Date:

March 31, 2025

Accreditation No.:

67619

Certificate No.:

L22-888

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.pjilabs.com



Certificate of Accreditation: Supplement

MX Industrial Distributors Inc.

181 Railroad Drive, Ivyland, PA 18974
 Contact Name: Brett Kendall Phone: 215-322-8909

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
Magnetic Particle Inspection Equipment-Current ^{FO}	20 A to 10 000 A	0.14 % of reading	Fluke 289 w/ Shunt WI: ASTM E1444 & E709
	10 000 A to 20 000 A (AC, HWDC, FWDC)	0.15 % of reading	
Magnetic Particle Inspection Equipment-TIME ^{FO}	0.15 s to 9 s	0.03 s	ATS-20B-Timer WI: SOP-050
Liquid Penetrant Inspection Equipment-Pressure ^{FO}	1 psig to 100 psig	3.9 % of reading	WIKA USG, Fluke 51, Atkins 33033; WI: ASTM E1417
Liquid Penetrant Inspection Equipment-Temperature ^{FO}	32 °F to 200 °F	0.7 °F	
DC Voltage ^F	100 mV to 1 V	0.02 % of reading	HP 6920B Fluke 92B WI: SOP-053
	1 V to 10 V	0.05 % of reading	
	10 V to 100V	0.08 % of reading	
	100 V to 1 000 V	0.14 % of reading	
DC Gauss Measuring Equipment-Fixed Points ^{FO}	0 G to 20 G	0.22 G	MXFI20 Gauss Fixture WI: SOP-042
DC Gauss Measuring Equipment-Measure Only ^F	1 G to 289.3 G	4 % of reading	VA-070A Magnet SHT-6 WI: SOP-043

Time & Frequency

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
Timers ^F	0.15 s to 60 s	1 s	S-1 Timer WI: SOP-055
	60 s to 3 599 s	0.03 s	GraLab 300 WI: SOP-055

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
Yokes – Magnetic Lift ^{FO}	10 lb to 50 lb	3 oz	ASTM E1444 & E709 Parker TB-10 weights
Pressure Gauges ^{FO}	1 psig to 100 psig	0.18 psig	WIKA USG WI: SOP-060



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

Thermodynamics

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
Temperatures (K-Type Thermocouple, Temperature Probes and Thermometers) ^{FO}	32 °F to 2 000 °F	2 °F	Fluke 51 Temperature Chamber SOP-056

Optical Quantities

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
Irradiance- Ultraviolet Light 320 nm to 380 nm ^F	10 μ W/cm to 30 000 μ W/cm ²	3.5 % of reading	UVP J-221 WI: SOP-052A
	10 μ W/cm to 19 990 μ W/cm ²	2.4 % of reading	Gould-Bass DLM-1000 WI: SOP-052A
	5 μ W/cm to 19 990 μ W/cm ²	2.4 % of reading	Spectronics DIX-365A DSE-100X WI: SOP-052A
	5 μ W/cm to 199.9 mW/cm ²	2.4 % of reading	Spectronics DIX-365A DSE-100H WI: SOP-052A
Illuminance - Visible Light 380 nm to 760 nm ^F	1 fc to 199.9 fc	1.7 % of reading	Spectronics DIX-555A DSE-100X WI: SOP-047
	10 fc to 1 999 fc	1.7 % of reading	Spectronics DIX-555A DSE-100H WI: SOP-047
	10 fc to 1 999 fc	1.7 % of reading	Gould-Bass DLM-1000 WI: SOP-047
	20 fc to 34 000 fc (LUX)	2.9 % of reading	Gould-Bass DLM-1500 WI: SOP-048



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

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 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.
4. 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.
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. CMC's stated as percent (%) are expressed as percent of measure and, unless otherwise stated.