



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Ametek Programmable Power, Inc. DBA United Electronic Industries

249 Vanderbilt Ave, Norwood, MA 02062

*(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):

Electrical 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

Initial Accreditation Date:

May 08, 2018

Issue Date:

May 22, 2024

Expiration Date:

September 30, 2026

Accreditation No.:

90811

Certificate No.:

L24-390

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*



Certificate of Accreditation: Supplement

Ametek Programmable Power, Inc. DBA United Electronic Industries

249 Vanderbilt Ave, Norwood, MA 02062
Contact Name: Mr. Greg Taillefer Phone: 508-921-4600

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

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Measure DC Volts ^F	12 V to 120 V	37 μ V + 12 μ V/V	3458A	WI: OEM LP-4 EA1015
	1.2 V to 11.9 V	4.9 μ V + 9.4 μ V/V		
	120 mV to 1.19 V	2.5 μ V + 9.9 μ V/V		
	10 nV to 119 mV	3.2 μ V + 7.8 μ V/V		
Equipment to Measure DC Amps ^F	120 mA to 1.05 A	0.017 mA + 0.21mA/A		
	12 mA to 119 mA	0.62 μ A + 0.058 μ A/mA		
	10 nA to 11.9 mA	0.48 μ A + 0.001 2 μ A/mA		
Equipment to Measure AC Volts (RMS) ^F 45Hz – 5kHz	12 V to 120 V	43 mV + 0.000 1 mV/V		
	1.2 V to 11.9 V	3 mV + 0.005 mV/V		
	120 m V to 1.19 V	0.78 mV + 0.33 mV/V		
Equipment to Measure AC Amps (RMS) ^F 45Hz – 5kHz	120 mA to 1.05 A	1.4 mA + 0.001 8 mA/A		
	12 mA to 119 mA	60 μ A + 0 μ A/mA		
	10 nA to 11.9 mA	6 μ A + 0 μ A/mA		
Equipment to Measure Resistance ^F	1.2 M Ω to 12 M Ω	840 Ω + 0.000 21 Ω / Ω		
	120 k Ω to 1.19 M Ω	300 Ω + 0.7 μ Ω / Ω		
	12 k Ω to 119 k Ω	0.1 Ω + 73 μ Ω / Ω		
	1.2 k Ω to 11.9 k Ω	0.19 Ω + 0.012 μ Ω / Ω		
	120 Ω to 1.19 k Ω	0.021 Ω + 0.18 μ Ω / Ω		
	12 Ω to 119 Ω	0.036 Ω + 3.2 μ Ω / Ω		
	10 μ Ω to 11.9 Ω	0.006 3 Ω - 25 μ Ω / Ω		

- 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.