PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

RE-SOL Reliable Solutions & Services

1771 Harmon Road, Auburn Hills, MI 48326

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Electrical, Mechanical, and Thermodynamic Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
May 30, 2014	November 07, 2025	January 31, 2028

Accreditation No.:	*Certificate No.:*
55952	L25-814

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.pjlabs.com

Certificate of Accreditation: Supplement

RE-SOL Reliable Solutions & Services

1771 Harmon Road, Auburn Hills, MI 48326
Contact Name: Andrew Wiggle Phone: 248-270-7777

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Electrical	Pressure Transducers (Voltage)	1 V to 20 V	0.003 5 V	Heise PTE-1	Procedure PRE_CAL -1	F1, F3	F, O
Electrical	Pressure Transducers (Current)	1 mA to 20 mA	0.007 mA	Heise PTE-1	Procedure PRE_CAL -1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	0.001 L/min to 0.01 L/min	0.001 7 mL/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure FM_CAL1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	0.01 L/min 0.15 L/min	0.017 mL/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure FM_CAL1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	0.15 L/min to 10 L/min	0.62 mL/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure FM_CAL1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	1 g/min to 10 g/min	0.003 8 g/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure FM_CAL1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	10 g/min to 100 g/min	0.009 g/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure FM_CAL1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	100 g/min to 10 000 g/min	0.1 g/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure DIV_CAL1	F1, F3	F, O
Mechanical	Mechanical Liquid Flow Meters	10 000 g/min to 20 000 g/min	0.73g/min	Class F1 Weights XP8002S Balance Mercury OC14T5A Timer	Procedure DIV_CAL1	F1, F3	F, O
Mechanical	Pressure Transducers	20 psi to 200 psi	0.063 psi	Heise PTE-1 HQS-2 200 psi	Procedure PRE_CAL -1	F1, F3	F, O

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Mechanical	Liquid Fluids Sensor	500 g/L to 1 000 g/L	170 mg/L	Gravimetric Method Weights Volumetric Flask, Balance, Temperature Meter	Procedure MASS_CAL-1	F1, F3	F, O
Mechanical	Fluid Density Sensor	500 g/L to 1 000 g/L	260 mg/L	Reference Fluids	Procedure DENS_CAL-1	F1, F3	F, O
Thermodynamic	Fluid Temperature Sensor	0 °C to 50 °C	0.22 °C	Omega HH40 Series thermistor thermometer	Procedure DENS_CAL-3	F1, F3	F, O

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. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

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.