



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### ***P&P Calibration Lab***

***Bo. Pájaros, Calle Cipres 139C, Toa Baja, Puerto Rico 00951***

*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, Dimensional, Mechanical and Time and Frequency 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:

*Initial Accreditation Date:*

*Issue Date:*

*Expiration Date:*

January 20, 2025

January 20, 2025

February 28, 2027

*Accreditation No.:*

*Certificate No.:*

75260

L25-46

Tracy Szerszen  
President

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

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



# Certificate of Accreditation: Supplement

## P&P Calibration Lab

Bo. Pájaros, Calle Cipres 139C, Toa Baja, Puerto Rico 00951  
 Contact Name: Gabriel Parra Phone: 101-507-316-0174

*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) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ ) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED | LOCATION OF ACTIVITY |    |
|--------------------------------|--|---|--|--|---|----------------------|----|
| Dimensional                    | Indicator                              | 0.001 mm to 508 mm                          | $(0.78 + 0.06 L) \mu\text{m}$  | Gage Block Set – Grade 0 Surface Plate             | CP-002  | FO                   |    |
|                                |  | 0.000 05 in to 20 in                        | $(31 + 2.5 L) \mu\text{in}$  |  |   |                      |    |
|                                | Caliper                                | 0.001 mm to 1 040 mm                        | $(12.39 + 0.06 L) \mu\text{m}$   |  |   | CP-003               | FO |
|                                |  | 0.000 5 in to 41 in                         | $(488 + 2.5 L) \mu\text{in}$   |  |   |                      |    |
|                                | Micrometer                             | 0.001 mm to 1 040 mm                        | $(0.64 + 0.06 L) \mu\text{m}$  |  |   | CP-006               | FO |
|                                |  | 0.000 5 in to 41 in                         | $(25.19 + 2.5 L) \mu\text{in}$   |  |   |                      |    |
|                                | Crimping Tools - Crimping Chamber      | 0.279 mm to 15.875 mm                       | 1.6 $\mu\text{m}$  | Pin Gage Sets - Class ZZ                           | CP-004  | FO                   |    |
|                                |  | 0.011 in to 0.625 in                        | 62 $\mu\text{in}$  |  |   |                      |    |
|                                | Angle Measuring devices                | 0 ° to 10 °                                 | 0.026°   | Angle Gauge Blocks                                 | CP-016  | FO                   |    |
|                                |  | 11° to 360 °                                | 0.062°   |  |   |                      |    |
|                                | Profilometer                           | 16 uin RA                                   | 2.1 uin  | Reference specimen Blocks                          | CP022   | FO                   |    |
|                                |  | 119 uin RA                                  | 2.1 uin  |  |   |                      |    |
| Feeler gage & Dimensional Gage | Up to 25 mm                            | 2.2 $\mu\text{m}$                           | Digital Micrometer/ Caliper  | CP024  | FO  |                      |    |
|                                | 25 mm to 300 mm                        | 12 $\mu\text{m}$                            |  |  |   |                      |    |
| Mechanical                     | Torque Wrench                          | 4 lbf•in to 7 200 lbf•in                    | 0.4 % of reading   | CDI Multitest 600TL2                               | CP-005  | FO                   |    |
|                                |  | 0.33 lbf•ft to 600 lbf•ft                   |  |  |   |                      |    |
|                                | Force Tensiometer                      | Up to 500 lb                                | 0.64 %   | Accuforce 500                                      | CP007   | FO                   |    |
|                                | Pressure Gage                          | -13.5 psi to 1 000 psi                      | 0.16 psig  | Additel ADT681/GP1K                                | CP-008  | FO                   |    |
|                                |  | 1 001 psi to 10 000 psi                     | 1.9 psig   | Additel ADT681/GP10K                               |   | FO                   |    |
|                                | Equipment to Measure Rockwell Hardness | 53.10 HRBW                                  | 0.50 HRBW  | Rockwell Test Blocks                               | CP025   | FO                   |    |
|                                |  | 77.38 HRBW                                  | 0.59 HRBW  |  |   |                      |    |
|                                |  | 94.05 HRBW                                  | 0.62 HRBW  |  |   |                      |    |
| 64.61 HRC                      |  | 0.35 HRC                                    |  |  |   |                      |    |



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|----------------------|---|---|--|--|---|---|----|
| Electrical           | Equipment to measure DC Voltage                             | Up to 104 mV                                | $8 \times 10^{-5} \text{ V/V} + 1.1 \times 10^{-5} \text{ V}$                | Transmille 1000                                    | CP-009  | FO  |    |
|                      |   | 0.104 V to 1.04 V                           | $8 \times 10^{-5} \text{ V/V} + 6.6 \times 10^{-5} \text{ V}$                |  |   |   |    |
|                      |   | 1.04 V to 10.4 V                            | $8 \times 10^{-5} \text{ V/V} + 6.6 \times 10^{-4} \text{ V}$                |  |   |   |    |
|                      |   | 10.4 V to 104 V                             | $8 \times 10^{-5} \text{ V/V} + 6.6 \times 10^{-3} \text{ V}$                |  |   |   |    |
|                      |   | 104 V to 1 000 V                            | $8 \times 10^{-5} \text{ V/V} + 6.6 \times 10^{-2} \text{ V}$                |  |   |   |    |
|                      | Equipment to measure DC Current                             | Up to 104 uA                                | $3.0 \times 10^{-4} \text{ A/A} + 3.1 \times 10^{-8} \text{ A}$              |  |   | FO  |    |
|                      |   | 0.104 mA to 1.04 mA                         | $3.0 \times 10^{-4} \text{ A/A} + 5.9 \times 10^{-7} \text{ A}$              |  |   |   |    |
|                      |   | 1.04 mA to 10.4 mA                          | $3.0 \times 10^{-4} \text{ A/A} + 1.7 \times 10^{-6} \text{ A}$              |  |   |   |    |
|                      |   | 10.4 mA to 104 mA                           | $3.0 \times 10^{-4} \text{ A/A} + 1.3 \times 10^{-5} \text{ A}$              |  |   |   |    |
|                      |   | 0.104 A to 1.04 A                           | $3.0 \times 10^{-4} \text{ A/A} + 2.5 \times 10^{-4} \text{ A}$              |  |   |   |    |
|                      | Equipment to measure AC Voltage (at the listed frequencies) | 2 000 Hz                                    | 104 mV   |  |   | $8.0 \times 10^{-4} \text{ V/V} + 5.6 \times 10^{-5} \text{ V}$ | FO |
|                      |   | 20 kHz                                      | 104 mV   |  |   | $1.5 \times 10^{-3} \text{ V/V} + 8.5 \times 10^{-5} \text{ V}$ |    |
|                      | Equipment to measure AC Voltage (at the listed frequencies) | 2 000 Hz                                    | 1.04 V   |  |   | $8.0 \times 10^{-4} \text{ V/V} + 3.3 \times 10^{-4} \text{ V}$ | FO |
|                      |   | 20 kHz                                      | 1.04 V   |  |   | $1.5 \times 10^{-3} \text{ V/V} + 7.2 \times 10^{-4} \text{ V}$ |    |
|                      | Equipment to measure AC Voltage (at the listed frequencies) | 2 000 Hz                                    | 10.4 V   |  |   | $8.0 \times 10^{-4} \text{ V/V} + 3.3 \times 10^{-3} \text{ V}$ | FO |
|                      |   | 20 kHz                                      | 10.4 V   |  |   | $1.5 \times 10^{-3} \text{ V/V} + 7.1 \times 10^{-3} \text{ V}$ |    |



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|--|---|---|--|--|---|----------------------|
| Electrical                                 | Equipment to measure AC Voltage (@ 1 kHz)         | 104 V   | $8.0 \times 10^{-4} \text{ V/V} + 3.3 \times 10^{-2} \text{ V}$              | Transmille 1000                                    | CP-009  | FO                   |
|  |   | 1 020 V   | $8.0 \times 10^{-4} \text{ V/V} + 3.3 \times 10^{-1} \text{ V}$              |  |   |                      |
|  | Equipment to measure AC Current (@ 10 Hz to 2kHz) | Up to 104 uA  | $1.0 \times 10^{-3} \text{ A/A} + 4.6 \times 10^{-7} \text{ A}$              |  |   | FO                   |
|  |   | 0.104mA to 1.04 mA  | $1.0 \times 10^{-3} \text{ A/A} + 1.2 \times 10^{-6} \text{ A}$              |  |   |                      |
|  |   | 1.04 mA to 10.4 mA  | $1.0 \times 10^{-3} \text{ A/A} + 8.4 \times 10^{-6} \text{ A}$              |  |   |                      |
|  |   | 10.4mA to 104 mA  | $1.0 \times 10^{-3} \text{ A/A} + 1.1 \times 10^{-4} \text{ A}$              |  |   |                      |
|  |   | 0.104 A to 1.04 A   | $1.0 \times 10^{-3} \text{ A/A} + 1.9 \times 10^{-3} \text{ A}$              |  |   |                      |
|  |   | 1.04 A to 10.4 A  | $1.0 \times 10^{-3} \text{ A/A} + 2.4 \times 10^{-2} \text{ A}$              |  |   |                      |
|  | Equipment to measure Resistance                   | Up to 100 $\Omega$  | $1.3 \times 10^{-4} \Omega/\Omega + 3.4 \times 10^{-2} \Omega$               |  |   | FO                   |
|  |   | 100 $\Omega$ to 1.0 k $\Omega$  | $1.3 \times 10^{-4} \Omega/\Omega + 6.8 \times 10^{-2} \Omega$               |  |   |                      |
|  |   | 1.01 k $\Omega$ to 10 k $\Omega$  | $1.3 \times 10^{-4} \Omega/\Omega + 6.0 \times 10^{-1} \Omega$               |  |   |                      |
|  |   | 10.1 k $\Omega$ to 100 k $\Omega$                                       | $1.3 \times 10^{-4} \Omega/\Omega + 6 \Omega$                                |  |   |                      |
|  |   | 101 k $\Omega$ to 1.0 M $\Omega$  | $1.3 \times 10^{-4} \Omega/\Omega + 6.1 \times 10^1 \Omega$                  |  |   |                      |
|  |   | 1.01M $\Omega$ to 10 M $\Omega$   | $1.3 \times 10^{-4} \Omega/\Omega + 6.5 \times 10^2 \Omega$                  |  |   |                      |
|  |   | 10M $\Omega$ to 100 M $\Omega$  | $3.3 \times 10^{-4} \Omega/\Omega + 6.1 \times 10^4 \Omega$                  |  |   |                      |
|  | Equipment to measure Resistance (Insulation)      | 250 k $\Omega$ to 100 M $\Omega$ (100 V)                                | $8.0 \times 10^{-5} \Omega/\Omega + 1.2 \times 10^{-2} \text{ M}\Omega$      |  |   | FO                   |
|  |   | 250 k $\Omega$ to 250 M $\Omega$ (250V)                                 | $8.0 \times 10^{-5} \Omega/\Omega + 1.3 \times 10^{-2} \text{ M}\Omega$      |  |   |                      |
|  |   | 500 k $\Omega$ to 500 M $\Omega$ (500 V)                                | $8.0 \times 10^{-5} \Omega/\Omega + 1.3 \times 10^{-2} \text{ M}\Omega$      |  |   |                      |
| 1 M $\Omega$ to 1 000 M $\Omega$ (1 000 V) |   | $8.0 \times 10^{-5} \Omega/\Omega + 2.8 \times 10^{-2} \text{ M}\Omega$ |  |  |   |                      |



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|---|--|--|--|--|---|----------------------|
| Electrical  | Equipment to measure Resistance (Insulation) | 1 M $\Omega$ to 1 G $\Omega$<br>(1 000 V to 5 000 V) | 8.0 x 10 <sup>-3</sup> $\Omega/\Omega$ + 1.2 10 <sup>-1</sup> M $\Omega$     | Transmille 1000<br>Megger CB101                    | CP-010  | FO                   |
|   |  | 1 G $\Omega$ to 10 G $\Omega$<br>(1 000V to 5 000 V) | 2.0 x 10 <sup>-2</sup> M $\Omega$  |  |   |                      |
| Electrical  | Equipment to measure Capacitance             | 10 nF  | 0.014 nF   | Transmille 1000<br>Fluke 8846A                     | CP-009  | FO                   |
|   |  | 0.1 uF   | 0.000 58 uF  |  |   |                      |
|   |  | 1 uF   | 0.0011 uF  |  |   |                      |
| Electrical Temperature Calibration Of Thermocouple Type K |  | -200 °C to -100 °C                                   | 0.21 °C  | Transmille 1000                                    | CP-013  | FO                   |
|   |  | -100 °C to 120 °C                                    | 0.2 °C   |  |   |                      |
|   |  | 120 °C to 1370 °C                                    | 0.21 °C  |  |   |                      |
| Electrical Temperature Calibration Of Thermocouple Type J |  | -210 °C to -100 °C                                   | 0.17 °C  |  |   | FO                   |
|   |  | -100 °C to 150 °C                                    | 0.17 °C  |  |   |                      |
|   |  | 150 °C to 760 °C                                     | 0.17 °C  |  |   |                      |
|   |  | 760 °C to 1 200 °C                                   | 0.17 °C  |  |   |                      |
| Electrical Temperature Calibration Of Thermocouple Type T |  | -250 °C to -150 °C                                   | 0.19 °C  |  |   | FO                   |
|   |  | -150 °C to 400 °C                                    | 0.1 °C   |  |   |                      |
| Electrical Temperature Calibration Of Simulated PRT       |  | -200 °C to 0.01 °C                                   | 0.17 °C  |  |   | FO                   |
|   |  | 0.01 °C to 800 °C                                    | 0.17 °C  |  |   |                      |
| DC Current Clamp Coil                                     | Up to 500 A                                  |  | 2.6 x 10 <sup>-3</sup> A/A + 0.23 A  | Transmille EA002                                   | CP-011  | FO                   |
| AC Current Clamp Coil                                     | Up to 500 A                                  |  | 3.3 x 10 <sup>-3</sup> A/A + 0.48 A  |  |   |                      |



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|----------------------------------|--|--|--|--|---|---------------------------------|--------|----|
| Electrical                       | Equipment to Output DC Voltage                     | Up to 100 mV   | $3.7 \times 10^{-5} \text{ V/V} + 3.6 \times 10^{-6} \text{ V}$              | Fluke 8846A  | CP-017  | FO                              |        |    |
|                                  |  | 0.1 V to 1 V   | $2.5 \times 10^{-5} \text{ V/V} + 5.9 \times 10^{-5} \text{ V}$              |  |   |                                 |        |    |
|                                  |  | 1 V to 10 V  | $2.4 \times 10^{-5} \text{ V/V} + 5.8 \times 10^{-4} \text{ V}$              |  |   |                                 |        |    |
|                                  |  | 10 V to 100 V  | $3.8 \times 10^{-5} \text{ V/V} + 5.9 \times 10^{-3} \text{ V}$              |  |   |                                 |        |    |
|                                  |  | 100 V to 1 000 V   | $4.1 \times 10^{-5} \text{ V/V} + 5.9 \times 10^{-2} \text{ V}$              |  |   |                                 |        |    |
|                                  | Equipment to Output DC Current                     | Up to 100 uA   | $5.0 \times 10^{-11} \text{ A/A} + 2.5 \times 10^{-9} \text{ A}$             |  |   |                                 | FO     |    |
|                                  |  | 0.1 mA to 1 mA   | $5.0 \times 10^{-11} \text{ A/A} + 5.2 \times 10^{-9} \text{ A}$             |  |   |                                 |        |    |
|                                  |  | 1 mA to 10 mA  | $5.0 \times 10^{-11} \text{ A/A} + 2.0 \times 10^{-7} \text{ A}$             |  |   |                                 |        |    |
|                                  |  | 10 mA to 100 mA  | $5.0 \times 10^{-11} \text{ A/A} + 5.2 \times 10^{-7} \text{ A}$             |  |   |                                 |        |    |
|                                  |  | 100 mA to 400 mA   | $5.0 \times 10^{-11} \text{ A/A} + 4. \times 10^{-5} \text{ A}$              |  |   |                                 |        |    |
|                                  |  | 0.4 A to 1 A   | $5.0 \times 10^{-11} \text{ A/A} + 2.0 \times 10^{-4} \text{ A}$             |  |   |                                 |        |    |
|                                  |  | 1 A to 3 A   | $1.0 \times 10^{-10} \text{ A/A} + 7.6 \times 10^{-4} \text{ A}$             |  |   |                                 |        |    |
|                                  | 3 A to 10 A  | $1.5 \times 10^{-10} \text{ A/A} + 6.0 \times 10^{-3} \text{ A}$ |  |  |   |                                 |        |    |
|                                  | Equipment to Measure Resistance WRIST STRAP TESTER | 675 k $\Omega$ to 750 k $\Omega$                                 | 20 k $\Omega$  |  |   | Desco 07010/<br>Trasmille 1000A | CP-009 | FO |
|                                  |  | 825 k $\Omega$ to 900 k $\Omega$                                 | 24 k $\Omega$  |  |   |                                 |        |    |
| 8.5 M $\Omega$ to 9 M $\Omega$   |  | 0.25 M $\Omega$  |  |  |   |                                 |        |    |
| 11 M $\Omega$ to 11.5 M $\Omega$ |  | 0.33 M $\Omega$  |  |  |   |                                 |        |    |
| 80 M $\Omega$                    |  | 2.4 M $\Omega$   |  |  |   |                                 |        |    |
| 120 M $\Omega$                   |  | 3.5 M $\Omega$   |  |  |   |                                 |        |    |



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| Time & Frequency     | Equipment to measure Frequency         | Up to 999 Hz                                | 0.58 Hz  | Transmille 1000                                    | CP-009  | FO                   |
|                      |  | 1 kHz to 10 kHz                             | 0.000 63 kHz   |  |   |                      |
|                      |  | 11 kHz to 100 kHz                           | 0.002 5 kHz  |  |   |                      |
|                      |  | 1 kHz to 999 kHz                            | $5.8 \times 10^{-3}$ kHz / kHz + 1.2 kHz                                     |  |   |                      |

- 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.
- Location of activity:
 

|                 |  |
|-----------------|--|
| <b>Location</b> | <b>Location</b>  |
| F               | Conformity assessment activity is performed at the CABs fixed facility           |
| O               | Conformity assessment activity is performed onsite at the CABs customer location |
- 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 L represents length in inches or millimeters as appropriate to the uncertainty statement.
- This location is linked to International Business Park Blvd., Panama Pacifico Bldg. 3815 Office 204, Panamá Pacifico Republic of Panama due to a shared quality management system