PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

P&P Calibration Lab

International Business Park Blvd., Panama Pacifico Bldg. 3815 Office 204, Panamá Pacifico, Republic of Panama

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:

Dimensional, Mechanical, Time and Frequency, Thermodynamic, Mass, Force, and Weighing Devices, and Electrical 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:*
December 05, 2014	May 17, 2025	September 30, 2027
Revision Date:	*Accreditation No.:*	*Certificate No.:*
October 13, 2025	75260	L25-46-1-R1

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

P&P Calibration Lab

International Business Park Blvd., Panama Pacifico Bldg. 3815 Office 204,Panamá Pacifico, Republic of Panama
Contact Name: Gabriel Parra Phone: 507-342-9484

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
Dimensional	Indicator	0.001 mm to 508 mm	(0.78 + 0.06 L) µm	Gage Block Set – Grade 0 Surface Plate	CP-002	F1, F3	F, O
Dimensional	Indicator	0.000 05 in to 20 in	(31+ 2.5 L) µin	Gage Block Set – Grade 0 Surface Plate	CP-002	F1, F3	F, O
Dimensional	Caliper	0.001 mm to 1 040 mm	(12.39 + 0.06 L) µm	Gage Block Set – Grade 0 Surface Plate	CP-003	F1, F3	F, O
Dimensional	Caliper	0.000 5 in to 41in	(488 + 2.5 L) µin	Gage Block Set – Grade 0 Surface Plate	CP-003	F1, F3	F, O
Dimensional	Micrometer	0.001 mm to 1 040 mm	(0.64 + 0.06 L) µm	Gage Block Set – Grade 0 Optical Flat	CP-006	F1, F3	F, O
Dimensional	Micrometer	0.000 5 in to 41in	(25.19 + 2.5 L) µin	Gage Block Set – Grade 0 Optical Flat	CP-006	F1, F3	F, O
Dimensional	Crimping Tools (Crimping Chamber)	0.279 mm to 15.875 mm	1.6 µm	Pin Gage Sets - Class ZZ	CP-004	F1, F3	F, O
Dimensional	Crimping Tools (Crimping Chamber)	0.011 in to 0.625 in	62 µin	Pin Gage Sets - Class ZZ	CP-004	F1, F3	F, O
Dimensional	Angle Measuring Devices	0 ° to 10 °	0.026 °	Angle Gauge Blocks	CP-016	F1, F3	F, O
Dimensional	Angle Measuring Devices	11° to 360 °	0.062 °	Angle Gauge Blocks	CP-016	F1, F3	F, O
Dimensional	Flexible Tape	Up to 30 m	0.83 mm	Digital Tape Measure	CP-015	F1, F3	F, O
Dimensional	Rigid Rule	Up to 1 m	0.66 mm	Digital Tape Measure	CP-015	F1, F3	F, O
Dimensional	Profilometers	16 uin RA	2.1 µin	Reference specimen Blocks	CP-022	F1, F3	F, O
Dimensional	Profilometers	119 uin RA	2.1 µin	Reference specimen Blocks	CP-022	F1, F3	F, O
Dimensional	Feeler gauge Dimensional Gage	Up to 25 mm	2.2 µm	Digital Micrometer/Caliper	CP-024	F1, F3	F, O
Dimensional	Feeler gauge Dimensional Gage	25 mm to 300mm	12 µm	Digital Micrometer/Caliper	CP-024	F1, F3	F, O

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Mechanical	Torque Wrench	0.33 lbf•ft to 1 000 lbf•ft	0.4 % of reading	CDI Multitest 2000-1	CP-005	F1, F3	F, O
Mechanical	Torque Wrench	4 lbf•ft to 12 000 lbf•in	0.4 % of reading	CDI Multitest 2000-1	CP-005	F1, F3	F, O
Mechanical	Torque Tester/ Torque Transducers	20 in•lbf to 500 ft•lbf	0.19 % reading	Class F weights Torque Arm	CP-020 EURAMET CG-14	F1, F2, F3	F, O
Mechanical	Tensiometer (Force)	20 lbf•in to 250 lbf•ft	0.58 % of reading	Dead weight Class F CDI Multitest 2000-1	CP-007	F1, F3	F, O
Mechanical	Tensiometer (Force)	201 lb to 1 000 lb	0.64 % of reading	CDI Multitest 2000-1	CP-007	F1, F3	F, O
Mechanical	Force Gauge	0.5 lb to 200 lb	0.16 % of reading	Dead weight Class F CDI Multitest 2000-1	CP-023	F1, F3	F, O
Mechanical	Force Gauge	200.1 lb to 1 000 lb	0.47 % of reading	CDI Multitest 2000-1	CP-023H	F1, F3	F, O
Mechanical	Pressure Gage	-13.5 psig to 0.001 psig	0.14 psig	Fluke 2700G-BG700K	CP-008	F1, F3	F, O
Mechanical	Pressure Gage	0 psig to 100 psig	0.082 psig	Fluke 2700G-BG700K	CP-008	F1, F3	F, O
Mechanical	Pressure Gage	101 psig to 500 psig	0.091 psig	Fluke 2700G-BG3.5M	CP-008	F1, F3	F, O
Mechanical	Pressure Gage	501 psig to 1 000 psig	0.19 psig	Fluke 2700G-BG7M	CP-008	F1, F3	F, O
Mechanical	Pressure Gage	1 001 psig to 10 000 psig	1.6 psig	Additel ADT681/GP10K	CP-008	F1, F3	F, O
Mechanical	Pressure Gage	10 001 psig to 15 000 psig	24 psig	Additel ADT681/ GP10K	CP-008	F1, F3	F, O
Mechanical	Pressure Gage	15 001 psig to 36 500 psig	98 psig	Additel ADT681/ GP10K	CP-008	F1, F3	F, O
Mechanical	Equipment to Measure Rockwell Hardness	53.1 HRBW	0.5 HRBW	Rockwell Test Blocks	CP-025	F1, F3	F, O
Mechanical	Equipment to Measure Rockwell Hardness	77.38 HRBW	0.59 HRBW	Rockwell Test Blocks	CP-025	F1, F3	F, O

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Mechanical	Equipment to Measure Rockwell Hardness	94.05 HRBW	0.62 HRBW	Rockwell Test Blocks	CP-025	F1, F3	F, O
Mechanical	Equipment to Measure Rockwell Hardness	64.61 HRC	0.35 HRC	Rockwell Test Blocks	CP-025	F1, F3	F, O
Mass, Force, and Weighing Devices	Bench and Floor Scales	Up to 1 100 g	0.000 6 g	NIST Class F Weights, OILM Class F1 Weights	CP-026	F1, F3	F, O
Mass, Force, and Weighing Devices	Bench and Floor Scales	Up to 300 lb	0.005 8 lb	NIST Class F Weights, OILM Class F1 Weights	CP-026	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	Up to 104 mV	8×10^{-5} V/V + 1.1×10^{-5} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.104 V to 1.04 V	8×10^{-5} V/V + 6.6×10^{-5} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	1.04 V to 10.4 V	8×10^{-5} V/V + 6.6×10^{-4} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	10.4 V to 104 V	8×10^{-5} V/V + 6.6×10^{-3} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	104 V to 1 000 V	8×10^{-5} V/V + 6.6×10^{-2} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Current	Up to 104 uA	3.0×10^{-4} A/A + 3.1×10^{-8} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.104 mA to 1.04 mA	3.0×10^{-4} A/A + 5.9×10^{-7} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Current	1.04 mA to 10.4 mA	3.0×10^{-4} A/A + 1.7×10^{-6} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Current	10.4 mA to 104 mA	3.0×10^{-4} A/A + 1.3×10^{-5} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.104 A to 1.04 A	3.0×10^{-4} A/A + 2.5×10^{-4} A	Transmille 1000	CP-009	F1, F3	F, O

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Electrical	Equipment to Measure DC Current	1.04 A to 10.4 A	5.0×10^{-4} A/A + 3.0×10^{-3} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 2 kHz)	104 mV	8.0×10^{-4} V/V + 5.6×10^{-5} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz)	104 mV	1.5×10^{-3} V/V + 8.5×10^{-5} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 2 kHz)	1.04 V	8.0×10^{-4} V/V + 3.3×10^{-4} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz)	1.04 V	1.5×10^{-3} V/V + 7.2×10^{-4} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 2 kHz)	10.4 V	8.0×10^{-4} V/V + 3.3×10^{-3} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz)	10.4 V	1.5×10^{-3} V/V + 7.1×10^{-3} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz)	104 V	8.0×10^{-4} V/V + 3.3×10^{-2} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz)	1 020 V	8.0×10^{-4} V/V + 3.3×10^{-1} V	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2kHz)	Up to 104 uA	1.0×10^{-3} A/A + 4.6×10^{-7} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2kHz)	0.104mA to 1.04 mA	1.0×10^{-3} A/A + 1.2×10^{-6} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2kHz)	1.04 mA to 10.4 mA	1.0×10^{-3} A/A + 8.4×10^{-6} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2kHz)	10.4mA to 104 mA	1.0×10^{-3} A/A + 1.1×10^{-4} A	Transmille 1000	CP-009	F1, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 10 Hz to 2kHz)	0.104 A to 1.04 A	1.0×10^{-3} A/A + 1.9×10^{-3} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 2kHz)	1.04 A to 10.4 A	1.0×10^{-3} A/A + 2.4×10^{-2} A	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	Up to 100 Ω	1.3×10^{-4} Ω/Ω + 3.4×10^{-2} Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	100 Ω to 1.0 kΩ	1.3×10^{-4} Ω/Ω + 6.8×10^{-2} Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.01 kΩ to 10 kΩ	1.3×10^{-4} Ω/Ω + 6.0×10^{-1} Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	10.1 kΩ to 100 kΩ	1.3×10^{-4} Ω/Ω + 6 Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	101 kΩ to 1.0 MΩ	1.3×10^{-4} Ω/Ω + 6.1×10^{1} Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.01M Ω to 10 MΩ	1.3×10^{-4} Ω/Ω + 6.5×10^{2} Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance	10M Ω to 100 MΩ	3.3×10^{-4} Ω/Ω + 6.1×10^{4} Ω	Transmille 1000	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Insulation) (@ 100 V)	250 kΩ to 100 MΩ	8.0×10^{-5} Ω/Ω + 1.2×10^{-2} MΩ	Transmille 1000 Megger CB101	CP-010	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Insulation) (@ 250V)	250 kΩ to 250 MΩ	8.0×10^{-5} Ω/Ω + 1.3×10^{-2} MΩ	Transmille 1000 Megger CB101	CP-010	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Insulation) (@ 500 V)	500 kΩ to 500 MΩ	8.0×10^{-5} Ω/Ω + 1.3×10^{-2} MΩ	Transmille 1000 Megger CB101	CP-010	F1, F3	F, O

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Electrical	Equipment to Measure Resistance (Insulation) (@ 1 000 V)	1 MΩ to 1 000 MΩ	8.0 x 10^{-5} Ω/Ω + 2.8 x 10^{-2} MΩ	Transmille 1000 Megger CB101	CP-010	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Insulation) (@ 1 000 V to 5 000 V)	1 MΩ to 1 GΩ	8.0 x 10^{-3} Ω/Ω + 1.2 10^{-1} MΩ	Transmille 1000 Megger CB101	CP-010	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Insulation) (@ 1 000V to 5 000 V)	1 GΩ to 10 GΩ	2.0 x 10^{-2} MΩ	Transmille 1000 Megger CB101	CP-010	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	Up to 1 nF	0.009 8 nF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1 nF to 10 nF	0.061 nF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	10 nF to 100 nF	0.084 nF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	0.1 uF to 1 uF	0.006 1 µF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1 µF to 10 µF	0.061 µF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	10 µF to 100 µF	0.61 µF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O

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Electrical	Equipment to Measure Capacitance	100 µF to 1000 µF	6.1 µF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Capacitance	1 mF to 10 mF	0.008 4 mF	Transmille 1000 Fluke 8846A/ Decade Capacitor	CP-009	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type K	-200 °C to -100 °C	0.21 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type K	-100 °C to 120 °C	0.2 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type K	120 °C to 1 370 °C	0.21 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type J	-210 °C to -100 °C	0.17 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type J	-100 °C to 150 °C	0.17 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type J	150 °C to - 760 °C	0.17 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type J	760 °C to 1 200 °C	0.17 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Thermocouple Type T	-250 °C to -150 °C	0.19 °C	Transmille 1000	CP-013	F1, F3	F, O

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Electrical	Electrical Temperature Calibration Of Thermocouple Type T	-150 °C to 400 °C	0.1 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Simulated PRT	-200 °C to 0.01 °C	0.17 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Electrical Temperature Calibration Of Simulated PRT	0.01 °C to 800 °C	0.17 °C	Transmille 1000	CP-013	F1, F3	F, O
Electrical	Equipment to Measure DC Current (Clamp Coil)	Up to 500 A	2.6×10^{-3} A/A + 0.23 A	Transmille EA002	CP-011	F1, F3	F, O
Electrical	Equipment to Measure AC Current (Clamp Coil)	Up to 500 A	3.3×10^{-3} A/A + 0.48A	Transmille EA002	CP-011	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	Up to 100 mV	3.7×10^{-5} V/V + 3.6×10^{-6} V	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	0.1 V to 1 V	2.5×10^{-5} V/V + 5.9×10^{-5} V	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	1 V to 10 V	2.4×10^{-5} V/V + 5.8×10^{-4} V	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	10 V to 100 V	3.8×10^{-5} V/V + 5.9×10^{-3} V	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1 000 V	4.1×10^{-5} V/V + 5.9×10^{-2} V	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O

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Electrical	Equipment to Output DC Voltage	1000 V to 5 kV	0.008 3 kV	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	5 kV to 40 kV	0.12 kV	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	Up to 100 uA	5.0×10^{-11} A/A + 2.5×10^{-9} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	0.1 mA to 1 mA	5.0×10^{-11} A/A + 5.2×10^{-9} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 mA to 10 mA	5.0×10^{-11} A/A + 2.0×10^{-7} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	10 mA to 100 mA	5.0×10^{-11} A/A + 5.2×10^{-7} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	100 mA to 400 mA	5.0×10^{-11} A/A + $4.x\ 10^{-5}$ A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	0.4 A to 1 A	5.0×10^{-11} A/A + 2.0×10^{-4} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 A to 3 A	1.0×10^{-10} A/A + 7.6×10^{-4} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	3 A to 10 A	1.5×10^{-10} A/A + 6.0×10^{-3} A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O

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P&P Calibration Lab

International Business Park Blvd., Panama Pacifico Bldg. 3815 Office 204,Panamá Pacifico, Republic of Panama
Contact Name: Gabriel Parra Phone: 507-342-9484

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	Equipment to Output DC Current	10 A to 100 A	1.9 mA/A + 0.32 A	Fluke 8846A/ Fluke 80K-40, Ductor Cal 5070	CP-017	F1, F3	F, O
Electrical	Equipment to Output DC Current	100 A to 1 kA	3.8 A	Ammeter & Timer Calibration Meter	CP-027	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 kA to 5 kA	16 A	Ammeter & Timer Calibration Meter	CP-027	F1, F3	F, O
Electrical	Equipment to Output AC Current (@ 60 Hz)	100 A to 1 kA	4.2 A	Ammeter & Timer Calibration Meter	CP-027	F1, F3	F, O
Electrical	Equipment to Output AC Current (@ 60 Hz)	1 kA to 5 kA	17 A	Ammeter & Timer Calibration Meter	CP-027	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Wrist Strap Tester)	675 kΩ to 750 kΩ	20 kΩ	Desco 07010/ Trasmille 1000A	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Wrist Strap Tester)	825 kΩ to 900 kΩ	24 kΩ	Desco 07010/ Trasmille 1000A	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Wrist Strap Tester)	8.5 MΩ to 9 MΩ	0.25 MΩ	Desco 07010/ Trasmille 1000A	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Wrist Strap Tester)	11 MΩ to 11.5 MΩ	0.33 MΩ	Desco 07010/ Trasmille 1000A	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Wrist Strap Tester)	80 MΩ	2.4 MΩ	Desco 07010/ Trasmille 1000A	CP-009	F1, F3	F, O
Electrical	Equipment to Measure Resistance (Wrist Strap Tester)	120 MΩ	3.5 MΩ	Desco 07010/ Trasmille 1000A	CP-009	F1, F3	F, O

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Electrical	Equipment to Measure Resistance (Milli & Micro Ohmmeters)	50 μΩ to 2Ω	1.0 x 10^{-3} Ω/Ω + 4.6 x 10^{-8} Ω	Ductor Cal 5070, Resistance decade box	CP-009	F1, F3	F, O
Electrical	Equipment to Output Resistance	Up to 10 Ω	0.039 mΩ	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	10 Ω to 100 Ω	0.1 mΩ	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	100 Ω to 1000 Ω	1.2 mΩ	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	1 kΩ to 10 kΩ	0.12 Ω	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	10 kΩ to 100 kΩ	0.15 Ω	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	100 kΩ to 1000 kΩ	30 Ω	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	1 MΩ to 10 MΩ	0.62 kΩ	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	10 MΩ to 100 MΩ	14 kΩ	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	0.1 GΩ to 1 GΩ	59 kΩ	DMM Fluke 8846A	CP-030 / CEM EL-003	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure Humidity Indicators	5 % RH to 95 % RH	0.89 % RH	Vaisala HM45/ HMP113, HCAL1104/Memert	CP-018 CEM TH-007	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure Temperature Sensor	0°C to 37 °C	0.18 °C	Traceable 4244/ HMP113	CP-019	F1, F3	F, O
Thermodynamic	Equipment to Measure IR Temperature	50 °C to 100 °C	2.2 °C	Black Body Source	CP-028 Infrared Thermometer calibration Guide INM GTM-T/02	F1, F2, F3	F, O

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Thermodynamic	Equipment to Measure IR Temperature	100 °C to 500 °C	3.6 °C	Black Body Source	CP-028 Infrared Thermometer calibration Guide INM GTM-T/02	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure IR Temperature	500 °C to 1 200 °C	5.1 °C	Black Body Source	CP-028 Infrared Thermometer calibration Guide INM GTM-T/02	F1, F2, F3	F, O
Time and Frequency	Equipment to measure Frequency	Up to 999 Hz	0.58 Hz	Transmille 1000	CP-009	F1, F3	F, O
Time and Frequency	Equipment to measure Frequency	1 kHz to 10 kHz	0.000 63 kHz	Transmille 1000	CP-009	F1, F3	F, O
Time and Frequency	Equipment to measure Frequency	11 kHz to 100 kHz	0.002 5 kHz	Transmille 1000	CP-009	F1, F3	F, O
Time and Frequency	Equipment to measure Frequency	1 kHz to 999 kHz	5.8×10^{-3} kHz / kHz + 1.2 kHz	Transmille 1000	CP-009	F1, F3	F, O
Time and Frequency	Equipment to Source Frequency	Up to 999 Hz	5.8×10^{-3}Hz/Hz + 1.2 Hz	Fluke 123B, Gain text box	CP-012	F1, F3	F, O
Time and Frequency	Equipment to Source Frequency	1 kHz to 10 kHz	5.8×10^{-3}kHz / kHz + 0.25 kHz	Fluke 123B, Gain text box	CP-012	F1, F3	F, O
Time and Frequency	Equipment to Source Frequency	10 kHz to 999 kHz	5.8×10^{-3}kHz / kHz + 1.2 kHz	Fluke 123B, Gain text box	CP-012	F1, F3	F, O
Time and Frequency	Equipment to Source Frequency	1 kHz to 10 MHz	1.2×10^{-2} MHz / MHz + 0.58 MHz	Fluke 123B, Gain text box	CP-012	F1, F3	F, O
Time and Frequency	Equipment to Source Frequency	11 kHz to 40 MHz	2.9×10^{-2} MHz / MHz + 0.58 MHz	Fluke 123B, Gain text box	CP-012	F1, F3	F, O
Time and Frequency	Equipment to Source Time Interval	Up to 24 hr	0.041 s	Stopwatch & Timer Calibration Meter	CP029/ CEM TF-003	F1, F2, F3	F, O

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

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.

5. The term DL represents diagonal length in inches or millimeters as appropriate to the uncertainty statement.

6. This is the primary site for all quality management system activities.