

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Quality Surveillance, Inc. 1200 Yarnell Place, Oxnard, CA 93033

(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, Time & Frequency, Dimensional, Thermodynamic and Mechanical

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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

June 25, 2002

March 01, 2024

April 30, 2026

Tracy Szerszen

President

Accreditation No:

Certificate No.:

ent

59169

L24-174

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.pjlabs.com





Quality Surveillance, Inc.

1200 Yarnell Place, Oxnard, CA 93033 Contact Name: Steve Perez Phone: 805-240-2448

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

Electrical

Issue: 03/2024

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Output	10 mV to 100 mV	$11 \mu\text{V/V} + 350 \text{nV}$	HP 3458A	GIDEP
DC Voltage FO	100 mV to 1 V	$10 \ \mu V/V + 380 \ nV$		
	1 V to 10 V	$10 \mu V/V + 0.6 \mu V$		
	10 V to 100 V	$12 \mu V/V + 35 \mu V$		
	100 V to 1 000 V	$12 \mu V/V + 120 \mu V$		
Equipment to Output	1 Ω to 10 Ω	$18.2 \ \mu\Omega\Omega\Omega + 60 \ \mu\Omega$		
DC Resistance FO	$10~\Omega$ to $100~\Omega$	14.9 μ Ω / Ω + 570 μ Ω		
	100Ω to $1 \text{ k}\Omega$	$13.2 \mu\Omega\Omega$ + $500 \mu\Omega$		
	$1 \text{ k}\Omega$ to $10 \text{ k}\Omega$	$13 \mu\Omega\Omega + 6 \mathrm{m}\Omega$		
	$10 \text{ k}\Omega$ to $100 \text{ k}\Omega$	$13 \mu\Omega\Omega + 60 \mathrm{m}\Omega$		
	100 kΩ to 1 MΩ	$18.3 \mu\Omega\Omega + 2.3 \Omega$		
	1 MΩ to 10 MΩ	58.1 μ Ω / Ω + 116 Ω	/	
	$10~\mathrm{M}\Omega$ to $100~\mathrm{M}\Omega$	578 μΩ/Ω + 1.16 kΩ		
	$100~\mathrm{M}\Omega$ to $1~\mathrm{G}\Omega$	$5.8 \text{ m}\Omega/\Omega + 11.6 \text{ k}\Omega$		
Equipment to Output	10 μA to 100 μA	51 μA/A + 1.6 nA		
DC Current FO	100 μA to 1mA	51 μA/A + 10 nA		
	1 μA to 10 mA	51 μA/A + 100 nA		
	10 mA to 100 mA	81 μΑ/Α + 1 μΑ		
	100 mA to 1 A	231 μΑ/Α + 20 μΑ		
Equipment to Output AC (at the listed frequencies				
10 Hz to 20 Hz	10 μA to 100 μA	4.7 mA/A + 34.7 nA		
20 Hz to 45 Hz	10 μA to 100 μA	1.8 mA/A + 34.7 nA		
45 Hz to 100 Hz	10 μA to 100 μA	693 μA/A + 34.7 nA		
100 Hz to 5 kHz	10 μA to 100 μA	693 μA/A + 34.7 nA		
Equipment to Output AC (at the listed frequencies			HP 3458A	
10 Hz to 20 Hz	100 μA to 1 mA	4.7 mA/A + 231 nA		
20 Hz to 45 Hz	100 μA to 1 mA	1.8 mA/A + 231 nA		
45 Hz to 100 Hz	100 μA to 1 mA	693 μA/A + 231 nA		
100 Hz to 5 kHz	100 μA to 1 mA	347 μA/A + 231 nA		
5 kHz to 20 kHz	100 μA to 1 mA	693 μA/A + 231 nA		



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Equipment to Output AC			HP 3458A	GIDEP
(at the listed frequencies) 20 kHz to 50 kHz	100 μA to 1 mA	4.7 mA/A + 462 nA		
50 kHz to 100 kHz	100 μA to 1 mA	$6.4 \text{ mA/A} + 1.8 \mu\text{A}$		
Equipment to Output AC		0.4 πΑ/Α + 1.0 μΑ		
(at the listed frequencies)				
10 Hz to 20 Hz	1 mA to 10 mA	4.7 mA/A + 2.31 μA		
20 Hz to 45 Hz	1 mA to 10 mA	1.8 mA/A + 2.31 μA		
45 Hz to 100 Hz	1 mA to 10 mA	693 μΑ/Α + 2.31 μΑ		
100 Hz to 5 kHz	1 mA to 10 mA	$347 \mu A/A + 2.31 \mu A$		
5 kHz to 20 kHz	1 mA to 10 mA	693 μΑ/Α + 2.31 μΑ		
20 kHz to 50 kHz	1 mA to 10 mA	4.7 mA/A + 4.62 μA		
50 kHz to 100 kHz	1 mA to 10 mA	$6.4 \text{ mA/A} + 17.33 \mu\text{A}$		
Equipment to Output AC (at the listed frequencies)				
10 Hz to 20 Hz	10 mA to 100 mA	4.7 mA/A + 23.1 μA		
20 Hz to 45 Hz	10 mA to 100 mA	1.8 mA/A + 23.1 μA	//	
45 Hz to 100 Hz	10 mA to 100 mA	693 μΑ/Α + 23.1 μΑ		
100 Hz to 5 kHz	10 mA to 100 mA	347 μΑ/Α + 23.1 μΑ	7-0	
5 kHz to 20 kHz	10 mA to 100 mA	693 μΑ/Α + 23.1 μΑ		
20 kHz to 50 kHz	10 mA to 100 mA	$4.7 \text{ mA/A} + 46.2 \mu\text{A}$		
50 kHz to 100 kHz	10 mA to 100 mA	6.4 mA/A + 173.3 μA		
Equipment to Output AC (at the listed frequencies)	FO			
10 Hz to 20 Hz	100 mA to 1 A	$4.7 \text{ mA/A} + 231 \mu\text{A}$		
20 Hz to 45 Hz	100 mA to 1 A	$1.9 \text{ mA/A} + 231 \mu\text{A}$		
45 Hz to 100 Hz	100 mA to 1 A	924 μ A/A + 231 μ A		
100 Hz to 5 kHz	100 mA to 1 A	$1.2 \text{ mA/A} + 231 \mu\text{A}$		
5 kHz to 20 kHz	100 mA to 1 A	$3.5 \text{ mA/A} + 231 \mu\text{A}$		
20 kHz to 50 kHz	100 mA to 1 A	11.6 mA/A + 462 μA		
Equipment to Output AC (at the listed frequencies)	FO			
1 Hz to 40 Hz	1 mV to 10 mV	$347 \mu V/V + 3.47 \mu V$		
40 Hz to 1 kHz	1 mV to 10 mV	$231 \mu V/V + 1.27 \mu V$		





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Electrical

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Equipment to Output AC	Voltage	AS AN UNCERTAINTT (±)	HP 3458A	GIDEP
(at the listed frequencies)) FO			
1 kHz to 20 kHz	1 mV to 10 mV	$347 \mu V/V + 1.27 \mu V$		
20 kHz to 50 kHz	1 mV to 10 mV	$1.2 \text{ mV/V} + 1.27 \mu\text{V}$		
50 kHz to 100 kHz	1 mV to 10 mV	$5.8 \text{ mV/V} + 1.27 \mu\text{V}$		
100 kHz to 300 kHz	1 mV to 10 mV	46.2 mV/V + 2.31 μV		
Equipment to Output AC (at the listed frequencies)		_		
1 Hz to 40 Hz	10 mV to 100 mV	$80.9 \mu V/V + 4.7 \mu V$		
40 Hz to 1 kHz	10 mV to 100 mV	$80.9 \mu V/V + 2.4 \mu V$		
1 kHz to 20 kHz	10 mV to 100 mV	$162 \mu V/V + 2.4 \mu V$		
20 kHz to 50 kHz	10 mV to 100 mV	$347 \mu V/V + 2.4 \mu V$		
50 kHz to 100 kHz	10 mV to 100 mV	924 μ V/V + 2.4 μ V	/)	
100 kHz to 300 kHz	10 mV to 100 mV	$3.5 \text{ mV/V} + 11.6 \mu\text{V}$		
300 kHz to 1 MHz	10 mV to 100 mV	11.6 mV/V + 11.6 μV		
1 MHz to 2 MHz	10 mV to 100 mV	$17.4 \text{ mV/V} + 11.6 \mu\text{V}$		
Equipment to Output AC (at the listed frequencies)			1	
1 Hz to 40 Hz	100 mV to 1 V	$80.9 \mu V/V + 47 \mu V$		
40 Hz to 1 kHz	100 mV to 1 V	$80.9 \mu V/V + 24 \mu V$		
1 kHz to 20 kHz	100 mV to 1 V	$162 \mu V/V + 24 \mu V$		
20 kHz to 50 kHz	100 mV to 1 V	$347 \mu V/V + 24 \mu V$		
50 kHz to 100 kHz	100 mV to 1 V	924 μV/V + 24 μV		
100 kHz to 300 kHz	100 mV to 1 V	$3.5 \text{ mV/V} + 116 \mu\text{V}$		
300 kHz to 1 MHz	100 mV to 1 V	11.6 mV/V + 116 μV		
1 MHz to 2 MHz	100 mV to 1 V	17.4 mV/V + 116 μV		
Equipment to Output AC (at the listed frequencies)				
1 Hz to 40 Hz	1 V to 10 V	$80.9 \mu V/V + 470 \mu V$		
40 Hz to 1 kHz	1 V to 10 V	$80.9 \ \mu V/V + 240 \ \mu V$		
1 kHz to 20 kHz	1 V to 10 V	$162 \mu V/V + 240 \mu V$		
20 kHz to 50 kHz	1 V to 10 V	$347 \mu V/V + 240 \mu V$		
50 kHz to 100 kHz	1 V to 10 V	$924 \mu V/V + 240 \mu V$		



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Electrical

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	Equipment to Output AC Voltage			GIDEP
(at the listed frequencies) 100 kHz to 300 kHz	1 V to 10 V	3.5 mV/V + 1.16 mV		
300 kHz to 1 MHz	1 V to 10 V	11.6 mV/V + 1.16 mV		
1 MHz to 2 MHz	1 V to 10 V	17.4 mV/V + 1.16 mV		
Equipment to Output AC (at the listed frequencies)	FO			
1 Hz to 40 Hz	10 V to 100 V	$231 \mu V/V + 4.7 \text{ mV}$		
40 Hz to 1 kHz	10 V to 100 V	$231 \mu V/V + 2.4 \text{ mV}$		
1 kHz to 20 kHz	10 V to 100 V	$231 \mu V/V + 2.4 \text{ mV}$		
20 kHz to 50 kHz	10 V to 100 V	$405 \mu V/V + 2.4 \text{ mV}$		
50 kHz to 100 kHz	10 V to 100 V	1.4 mV/V + 2.4 mV		
100 kHz to 300 kHz	10 V to 100 V	4.7 mV/V + 11.6 mV		
300 kHz to 1 MHz	10 V to 100 V	17.4 mV/V + 11.6 mV	<)	
Equipment to Output AC (at the listed frequencies)				
1 Hz to 40 Hz	100 V to 700 V	$465 \mu V/V + 33 mV$		
40 Hz to 1 kHz	100 V to 700 V	$465 \mu V/V + 33 \text{ mV}$		
1 kHz to 20 kHz	100 V to 700 V	$696 \mu V/V + 33 \text{ mV}$	7-0	
20 kHz to 50 kHz	100 V to 700 V	1.4 mV/V + 33 mV		
50 kHz to 100 kHz	100 V to 700 V	3.5 mV/V + 33 mV		
Equipment to Measure	330 pF to 11 nF	5.8 pF/nF + 11.6 pF	Fluke 5500A	GIDEP
Capacitance FO	11 nF to 110 nF	2.9 pF/nF + 115.6 pF		
At the listed frequencies	110 nF to 330 nF	2.9 pF/nF + 346.5 pF		
(50 Hz to 1 kHz)	330 nF to 1.1 μF	$2.9 \text{ nF/}\mu\text{F} + 1.2 \text{ nF}$		
	1.1 μF to 3.3 μF	$4.1 \text{ nF/}\mu\text{F} + 3.5 \text{ nF}$		
	3.3 μF to 11 μF	4.1 nF/μF +11.6 nF		
	11 μF to 33 μF	$4.7 \text{ nF/}\mu\text{F} + 34.7 \text{ nF}$		
	33 μF to 110 μF	$5.8 \text{ nF/}\mu\text{F} + 115.6 \text{ nF}$		
	110 μF to 330 μF	$8.1 \text{ nF/}\mu\text{F} + 346.5 \text{ nF}$		
	330 μF to 1.1 mF	11.6 μF/mF + 347 nF		





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Thermodynamic

1 Hermodynamic				
MEASURED	RANGE	CALIBRATION AND	CALIBRATION	CALIBRATION
INSTRUMENT,	(AND SPECIFICATION	MEASUREMENT	EQUIPMENT AND	MEASUREMENT
QUANTITY OR GAUGE	WHERE APPROPRIATE)	CAPABILITY EXPRESSED	REFERENCE	METHOD OR
		AS AN UNCERTAINTY (±)	STANDARDS USED	PROCEDURES USED
RH Meters/Recorders	75.3 % RH	1 % RH at 25 °C	Salt Solutions - GIDEP	GIDEP
Fixed Points FO	75.5 % RH	1 % RH at 20 °C	Sodium Chloride	
	32.8 % RH	1 % RH at 25 °C	Salt Solutions –	GIDEP
	33.1 % RH	1 % RH at 20 °C	Magnesium Chloride	

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Gage Block F	0.1 in to 0.95 in	$(3 + 1.3L) \mu in$	Federal 130B-16	GIDEP
	1 in to 4 in	$(2.8 + 2L) \mu in$		
Outside Micrometer FO	0.1 in to 4 in	(38 + 5L) μin	Gage Blocks	GIDEP
	5 in to 20 in	(28 + 8L) μin		
	21 in to 40 in	$(539 + 3L) \mu in$		
Depth Micrometer FO	0.1 in to 6 in	(53 + 5L) μin	X	
	7 in to 12 in	(40 + 6L) μin		
Drop Indicator FO	0.000 5 in to 2 in	(72 + 11L) μin		
Micrometer Head FO	0.1 in to 2 in	(47 + 9L) μin		
Test Indicator FO	0.000 5 in to 0.008 in	(58 + 0.7L) μin		
Height Gage FO	0.1 in to 40 in	(301 + 4L) μin		
Caliper FO	0.1 in to 40 in	(295 + 8L) μin		
Height Master F	1 in to 12 in	(84 + 2L) μin		
	12 in to 24 in	(62 + 4L) μin		
Super Micrometer F	0.1 in to 1 in	37 μin		
Cylindrical Plug/Pin FO	0.01 in to 1 in	52 μin	Mahr 828	GIDEP



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Mechanical

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Pressure Gauge FO	-30 inHg to 0 inHg	0.018 inHg	Ruska 6220-05A	GIDEP
	Up to 15 psi	0.012 psi		
	15 psi to 30 psi	0.045 psi	Ametek RK-300	GIDEP
	30 psi to 60 psi	0.066 psi		
	60 psi to 150 psi	0.12 psi		
	150 psi to 300 psi	0.29 psi		
	300 psi to 1 500 psi	1.2 psi	Heise HQS-2/FM -	GIDEP
	1 500 psi to 5 000 psi	5.7 psi	Heise 901B	GIDEP
	5 000 psi to 10 000 psi	29 psi	Seegars SS-2170-1000	GIDEP
Torque Wrench/Driver FO	2.5 ozf·in to 25 ozf·in	0.6 ozf·in	Sturtevant-Richmont System 5 TT2510	
	25 ozf·in to 80 ozf·in	1.5 ozf·in	Sturtevant-Richmont System 5 TT-100I0 GIDEP	GIDEP
	80 ozf·in to 160 ozf·in	3 ozf·in	Sturtevant-Richmont System 5 T400I0	GIDEP
	10 lbf·in to 25 lbf·in	0.35 lbf·in	Sturtevant-Richmont	GIDEP
	25 lbf·in to 50 lbf·in	0.62 lbf·in	System 5 TT100I	
	50 lbf·in to 100 lbf·in	1.5 lbf·in	111001	
	100 lbf·in to 300 lbf·in	3.1 lbf·in	Sturtevant-Richmont	GIDEP
	300 lbf·in to 600 lbf·in	8.1 lbf·in	System 5 TT300I	
	600 lbf·ft to 1 800 lbf·ft	16 lbf·ft	Sturtevant-Richmont System 5 TT-150	GIDEP
	150 lbf·ft to 250 lbf·ft	3 lbf·ft	Sturtevant-Richmont System 5 TT-250	GIDEP
Torque Wrench ^{FO}	250 lbf·ft to 600 lbf·ft	3.9 lbf·ft	Sturtevant-Richmont	GIDEP
	600 lbf·ft to 1 000 lbf·ft	6.7 lbf·ft	System 5 TT-1000	





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Mechanical 1

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Torque Analyzer-FO	5 in·lbs to 50 in·lbs 180 in·lbs to 1 800 in·lbs	(0.11 + 0.001 6 T) in·lbs (3.9 + 0.001 6 T) in·lbs	Class F weights/Torque	GIDEP
	300 in·lbs to 3 000 in·lbs	(6.5 + 0.001 6 T) in lbs	Arms	
	3 000 in·lbs to 12 000 in·lbs	(25.8 + 0.001 6 T) in·lbs		
Rockwell Hardness	(10 to 30) HRC	1.6 HRC	HRC, HR15N	GIDEP
Tester ^O	(60 to 70) HRC	1.6 HRC		
	(70 to 77) HR15N	2.1 HR15N		
	(89 to 94) HR15N	2.2 HR15N]	
	(63 to 77) HR45N	2.2 HR45N]	
Accelerometer F 1G @ 20 Hz to 10 000 Hz	20 Hz to 100 Hz	3.80 %	Reference	GIDEP
	100 Hz to 2 500 Hz	3.1 %	Accelerometer/Vib	
	2 500 Hz to 10 kHz	5.3 %	ration Controller	

- 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.
- 4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter 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. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.