



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***Modern Surveying Calibration & Testing Labs
Gazna-6, Main Gazna Road, Erbil, Kurdistan, Iraq***

*(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):

***Mechanical, Electrical, Thermodynamic and Dimensional 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

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

Initial Accreditation Date:

September 17, 2020

Issue Date:

September 17, 2020

Expiration Date:

December 31, 2022

Accreditation No.:

106457

Certificate No.:

L20-582

*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

Modern Surveying Calibration & Testing Labs

6, Main Gazna Road, Erbil, Kurdistan, Iraq
 Contact Name: Charanjith PR Phone: 971561188358

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

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Pressure Gauge Differential Pressure Indicator Pressure Sensors Pressure Transducer Pressure Transmitter ^{FO}	0 mBar to 1 000 mBar	0.01 mBar	Automated Pressure Calibrator-Additel-ADT761-D Standard Pressure Gauge/Modules Fluke & Additel MSL/CP/P/04 Based on DKD-R-6-1
	1 Bar to 40 Bar	0.001 Bar	Automated Pressure Calibrator Additel-ADT761-HA Standard Pressure Gauge/Modules Fluke & Additel MSL/CP/P/04 Based on DKD-R-6-1
	40 Bar to 200 Bar	0.001 Bar	Pressure Balance DH-Budenberg - CPB 5800 Standard Pressure Gauge/Modules Fluke & Additel MSL/CP/P/04 Based on DKD-R-6-1
Pressure Gauge Differential Pressure Indicator Pressure Sensors Pressure Transducer Pressure Transmitter ^{FO}	200 Bar to 1200 bar	0.006 % Rdg	Pressure Balance DH-Budenberg - CPB 5800 Standard Pressure Gauge/Modules Fluke & Additel MSL/CP/P/04 Based on DKD-R-6-1
Vacuum Gauges Vacuum Transducer Vacuum Transmitters Vacuum Sensors ^{FO}	-900 mBar to 0 mBar	0.01 mBar	Automated Pressure Calibrator-Additel-ADT761-D Standard Pressure Gauge/Modules Fluke & Additel MSL/CP/P/04 Based on DKD-R-6-1

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Dry Block Calibrators ^F	-40 °C to 0 °C	0.039 °C	Fluke Black Stack 1560 with modules 2560,2561,2562,2565 & 2566
	0 °C to 50 °C	0.047 °C	
	50 °C to 100°C	0.055 °C	
	100 °C to 140 °C	0.064 °C	
	140 °C to 200 °C	0.1 °C	SPRT Fluke 5698



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	200 °C to 300 °C	0.13 °C	PRTs Fluke-5626 & Fluke-5628, EURAMET Calibration Guide No.13
	300 °C to 400 °C	0.14 °C	
	400 °C to 500 °C	0.17 °C	
	500 °C to 600 °C	0.22 °C	

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Infrared Thermometers Wavelength: ^F 8 μm to 14 μm	-30 °C	2 °C	Portable Infrared Calibrator-Fluke 9133 ASTM E2847
	-25 °C	1.8 °C	
	-20 °C	1.6 °C	
	-10 °C	1.2 °C	
	-5 °C	1.1 °C	
	0 °C	0.97 °C	
	23 °C	0.72 °C	
	50 °C	0.93 °C	
	75 °C	1.3 °C	
	100 °C	1.6 °C	
	125 °C	2 °C	
	150 °C	2.4 °C	
Ovens ^{FO}	Up to 50 °C	0.22 °C	Fluke-2638A Hydra Series III Data Acquisition System DATA Logger for Humidity and Temperature-Rotronics-HL-20D High Temperature Data Logger-Madgetech-Hi Temp 140 BS EN 60068-3-5
	50 °C to 100 °C	0.34 °C	
	100 °C to 150 °C	0.54 °C	
	150 °C to 250 °C	0.70 °C	
Incubators/Refrigerator Freezer ^{FO}	-40 °C to -20 °C	0.79 °C	Fluke-2638A Hydra Series III Data Acquisition System DATA Logger for Humidity and Temperature-Rotronics - HL-20D High Temperature Data Logger-Madgetech-Hi Temp 140 BS EN 60068-3-5
	-20 °C to -10 °C	0.74 °C	
	-10 °C to -4 °C	0.68 °C	
	-4 °C to 25 °C	0.2 °C	
	25 °C to 70 °C	0.21 °C	



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Thermodynamic

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Digital Thermometer (RTD & Thermocouple) ^{FO}	-40 °C to 0 °C	0.046 °C	PRT Fluke 5626 & 5628, Black Stack Thermometer Read Out – Fluke-1560 SPRT Module Fluke-2560. High -Temp PRT Module Fluke-2561 Precision Thermocouple Module -Fluke-2565 Precision Baths: Fluke 6331, 7381, Multi-function Calibrator (Micro Calibration Bath) Wika- CTM9100-150 Metrology Wells: Fluke 9170, 9173 Type S Thermocouple Standard-Fluke 5650 MSL/CP/T/05
	0 °C to 50 °C	0.049 °C	
	50 °C to 100 °C	0.057 °C	
	100 °C to 175 °C	0.074 °C	
	175 °C to 250 °C	0.076 °C	
	250 °C to 400 °C	0.16 °C	
	400 °C to 600 °C	0.2 °C	

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Outside Micrometer ^F	Up to 25 mm Resolution:0.001 mm	(2.6+0.12 L) μ m	Gauge Block Set-Mitutoyo- 516-106-10 Gauge Block Set-Tesa BS:870
	Up to 25 mm Resolution:0.01 mm	(6.3+0.05 L) μ m	
Inside Micrometer ^F	Up to 25 mm	(7.42+0.17 L) μ m	Gauge Block Set-Mitutoyo- 516-106-10 Gauge Block Set-Tesa BS:959
Depth Micrometer ^F	Up to 25 mm	(5.86+0.01 L) μ m	Gauge Block Set-Tesa BS:6468
Calipers (Vernier, Dial & Digital) ^{FO}	Up to 600 mm Resolution 0.01 mm	(7.42+0.069L) μ m	Caliper checker Mitutoyo- 515-556-2 BS:887
	Up to 300 mm Resolution 0.02 mm	(12.873+0.04L) μ m	
	Up to 600 mm Resolution 0.05 mm	(28.932+0.086L) μ m	
Measuring Tapes ^F	Up to 30 m	(577+0.12 L) μ m	Measuring Scale & Tape Calibration System Octagon MSTC-1000 OIML: R 35-1 OIML: R 35-2
Steel Ruler ^F	Up to 1000 mm	(645+0.002 5 L) μ m	



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Indicator (Dial/Digital) ^F	Up to 50 mm	7 μm	Dial Indication Tester- Mitutoyo 170-102-12 Gauge Block Set-Tesa MSL/CP/D/07 Based on BS EN ISO 463
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Electrical

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Equipment to Measure DC Voltage ^{FO}	1 mV to 330 mV	25 μV/V + 1 μV	Multi-Product Calibrator - Fluke 5522A
	0.33 V to 3.3 V	14 μV/V + 2 μV	
	3.3 V to 30 V	9 μV/V + 20 μV	MSL/CP/E/01
	30 V to 330 V	12 μV/V + 150 μV	
	330 V to 1000 V	12 μV/V + 1.5 mV	
Equipment to Measure AC Voltage ^{FO}	1 mV to 33 mV @ 45 Hz to 1 kHz	600 μV/V + 6 μV	Multi-Product Calibrator - Fluke 5522A
	33 mV to 330 mV @ 45 Hz to 1 kHz	120 μV/V + 8 μV	MSL/CP/E/01
	0.33 V to 3.3 V @ 45 Hz to 1 kHz	82 μV/V + 160 μV	
	3.3 V to 33 V @ 45 Hz to 1 kHz	55 μV/V + 600 μV	
	33 V to 330 V @ 45 Hz to 1 kHz	65 μV/V + 2 000 μV	
	330 V to 1000 V @ 45 Hz to 1 kHz	90 μV/V + 10 mV	
Equipment to Measure DC Current ^{FO}	100 μA to 330 μA	4 μA/A + 0.02 μA	Multi-Product Calibrator - Fluke 5522A
	0.33 mA to 3.3 mA	25 μA/A + 0.05 μA	
	3.3 mA to 33 mA	25 μA/A + 0.25 μA	MSL/CP/E/01
	33 mA to 330 mA	25 μA/A + 2.5 μA	
	0.33 A to 1.1 A	41 μA/A + 40 μA	
	1.1 A to 3 A	50 μA/A + 40 μA	
	3 A to 11 A	470 μA/A + 750 μA	
11 A to 20 A	800 μA/A + 1500 μA		
Clamp - On Meters to Measure DC Current ^{FO}	10 A to 16.5 A	0.19 % + 1.6 mA	Multi-Product Calibrator - Fluke 5522A
	16.5 A to 150 A	0.19 % + 12 mA	
	150 A to 1 000 A	0.19 % + 39 mA	Fluke 5500A (Coil) MSL/CP/E/01
Clamp - On Meters to Measure AC Current ^{FO}	10 A to 16.5 A @ 45 Hz to 1 kHz	0.22 % + 2.33 mA	Multi-Product Calibrator - Fluke 5522A
	16.5 A to 150 A @ 45 Hz to 1 kHz	0.22 % + 19.38 mA	Fluke 5500A (Coil)
	150 A to 1 000 A @ 45Hz to 1 kHz	0.22 % + 69.77 mA	



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Equipment to Measure AC Current ^{FO}	29 μ A + 330 μ A @ 45 Hz to 1 kHz	0.12 % + 0.1 μ A	Multi-Product Calibrator - Fluke 5522A
	0.33 mA to 3.3 mA @ 45Hz to 1 kHz	0.11 % + 0.15 μ A	MSL/CP/E/01
	3.3 mA to 33 mA @ 45 Hz to 1 kHz	0.048 % + 2 μ A	
	33 mA to 330 mA @ 45 Hz to 1 kHz	0.05 % + 20 μ A	
	0.33 A to 1.1 A @ 45 Hz to 1 kHz	0.06 % + 0.1 mA	
	1.1 A to 3 A @ 45 Hz to 1 kHz	0.08 + 0.1 mA	
	3 A to 11 A @ 45 Hz to 1 kHz	0.09 % + 2 mA	
	11 A to 20 A @ 45 Hz to 1 kHz	0.2 % + 5 mA	
Equipment to Measure Resistance (Fixed Points) ^F	1 m Ω	0.000 1 m Ω	Burster- 1240 Calibration Resistor
	10 m Ω	0.001 m Ω	MSL/CP/E/01
	100 m Ω	0.01 m Ω	
	1 Ω	0.000 011 Ω	Fluke 742 A Resistance Standards
	10 Ω	0.001 Ω	MSL/CP/E/01
	100 Ω	0.01 Ω	
	1 K Ω	0.000 08 K Ω	
	10 K Ω	0.000 8 K Ω	
	1 M Ω	0.008 K Ω	
10 M Ω	0.002 M Ω		



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Equipment to Measure Resistance ^F	0.1 Ω to 11 Ω	0.006 % + 0.5 m Ω	Multi-Product Calibrator - Fluke 5522A MSL/CP/E/01
	11 Ω to 33 Ω	0.001 % + 1 m Ω	
	33 Ω to 110 Ω	0.001 % + 4 m Ω	
	110 Ω to 330 Ω	0.001 % + 4 m Ω	
	0.33 K Ω to 1.1 K Ω	0.001 % + 4 m Ω	
	1.1 K Ω to 3.3 K Ω	0.001 % + 4 m Ω	
	3.3 K Ω to 11 K Ω	0.001 % + 1 Ω	
	11 K Ω to 33 K Ω	0.08 % + 4 Ω	
	33 K Ω to 110 K Ω	0.001 % + 4 Ω	
	110 K Ω to 330 K Ω	0.001 % + 11 Ω	
	0.33 M Ω to 1.1 M Ω	0.001 % + 36 Ω	
	1.1 M Ω to 3.3 M Ω	0.006 % + 0.2 k Ω	
	3.3 M Ω to 11 M Ω	0.036 % + 1.5 k Ω	
	11 M Ω to 33 M Ω	0.1 % + 8.3 k Ω	
	33 M Ω to 110 M Ω	0.01 % + 55 k Ω	
110 M Ω to 330 M Ω	0.01 % + 0.1 M Ω		
330 M Ω to 1 100 M Ω	0.74 % + 0.1 M Ω		
Equipment to Output AC Current ^F	1 μ A to 200 μ A @ 45 Hz to 1 KHz	0.054 % + 20 nA	Reference Multimeter Fluke -8508A MSL/CP/E/01
	0.2 mA to 2 mA @ 45 Hz to 1 KHz	0.032 % + 0.2 μ A	
	2 mA to 20 mA @ 45 Hz to 1 KHz	0.033 % + 2 μ A	
	20 mA to 200 mA @ 45 Hz to 1 KHz	0.031 % + 20 μ A	
	0.2 A to 2 A @ 45 Hz to 1 KHz	0.063 % + 0.2 mA	
	2 A to 20 A @ 45 Hz to 1 KHz	0.84 % + 2 mA	
Equipment to Output DC Current ^F	1 μ A to 200 μ A	42 μ A/A + 0.023 μ A	Reference Multimeter Fluke -8508A MSL/CP/E/01
	0.2 mA to 2 mA	26 μ A/A + 0.003 μ A	
	2 mA to 20 mA	28 μ A/A + 0.03 μ A	
	20 mA to 200 mA	28 μ A/A + 0.03 μ A	
	0.2 A to 2 A	220 μ A/A + 0.02 μ A	
	2 A to 20 A	0.48 mA/A + 0.4 mA	



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Equipment to Output AC Voltage ^F	1 mv to 200 mv @ 45 Hz to 1 kHz	0.011 % + 0.002 mV	Reference Multimeter Fluke -8508A
	0.2 V to 2 V @ 45 Hz to 1 kHz	0.0086% + 20 μ V	MSL/CP/E/01
	2 V to 20 V @ 45 Hz to 1 kHz	0.0086 % + 0.2 mV	
	20 V to 200 V @ 45 Hz to 1 kHz	0.009 % + 2 mV	
	200 V to 1 000 V @ 45 Hz to 1kHz	0.011 % + 2 mV	
Equipment to Output DC Voltage ^F	1 mv to 200 mv	10 μ V/V + 0.07 μ V	Reference Multimeter Fluke -8508A
	0.2 V to 2 V	5 μ V/V + 1.4 μ V	MSL/CP/E/01
	2 V to 20 V	5 μ V/V + 40 μ V	
	20 V to 200 V	8 μ V/V + 36 μ V	
	200 V to 1 000 V	10 μ V/V + 0.49 mV	
Equipment to Output Resistance ^F	1 m Ω to 2 Ω	0.002 % Rdg	Reference Multimeter Fluke -8508A
	2 Ω to 20 Ω	0.002 % Rdg	MSL/CP/E/01
	20 Ω to 200 Ω	0.0009 % Rdg	
	0.2 K Ω to 2 K Ω	0.001 % Rdg	
	2 k Ω to 20 K Ω	0.001 % Rdg	
	20 K Ω to 200 K Ω	0.001 % Rdg	
	0.2 M Ω to 2 M Ω	0.001 % Rdg	
	2 M Ω to 20 M Ω	0.003 % Rdg	
20 M Ω to 200 M Ω	0.009 % Rdg		
Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement (Type J) ^F	-210 °C to -100 °C	0.21 °C	Multi-Product Calibrator - Fluke 5522A
	-100 °C to -30 °C	0.12 °C	EURAMET cg-11
	-30 °C to 150 °C	0.08 °C	
	150 °C to 760 °C	0.12 °C	
	760 °C to 1 200 °C	0.18 °C	



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Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement (Type K) ^F	-200 °C to -100 °C	0.25 °C	Multi-Product Calibrator - Fluke 5522A
	-100 °C to -25 °C	0.12 °C	
	-25 °C to 120 °C	0.09 °C	EURAMET cg-11
	120 °C to 1 000 °C	0.19 °C	
	1 000 °C to 1 372 °C	0.57 °C	
Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement (Type R) ^F	0 °C to 250 °C	0.21 °C	Multi-Product Calibrator - Fluke 5522A
	250 °C to 400 °C	0.27 °C	
	400 °C to 1 000 °C	0.35 °C	EURAMET cg-11
	1 000 °C to 1 767 °C	0.47 °C	
Calibration of Temperature Indicators and Simulators by Electrical Simulation and Measurement (Type S) ^F	0 °C to 250 °C	0.38 °C	Multi-Product Calibrator - Fluke 5522A
	250 °C to 1 000 °C	0.29 °C	
	1 000 °C to 1 400 °C	0.41 °C	EURAMET cg-11
	1 400 °C to 1 767 °C	0.49 °C	

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. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
4. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and 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



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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.
7. The term T represents temperature in °C or °F as appropriate to the uncertainty statement.

