PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Global Calibration, LLC

1507-11 Smithtown Avenue, Bohemia, NY 11716

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, Dimensiona, Mechanical, Time & Frequency, 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:*
November 01, 2017	November 26, 2023	November 26, 2025

Extension Date:	*Revision Date:*	*Accreditation No.:*	*Certificate No.:*
April 30, 2026	April 30, 2025	85580	L23-854-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

Global Calibration, LLC

1507-11 Smithtown Avenue, Bohemia, NY 11716

Contact Name: Mr. Charles Mahoney Phone: 631-750-5663

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 Measure DC Voltage	Up to 330 mV	17 µV + 39.3 µV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.33 mV to 33 V	0.51 µV + 0.18 µV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	3.3 V to 33 V	5.9 mV + 9.9 µV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	33 V to 330 V	42 mV + 17 µV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	330 V to 1 020 V	150 mV + 17 µV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	Up to 100 mV	1.9 µV + 1.9 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	100 mV to 1 V	15 µV + 1.9 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	1V to 10 V	52 µV + 4.2 µV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	10 V to 100 V	72 µV + 6.6 µV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	100 V to 1 000 V	5.5 mV + 6.5 µV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	Up to 33 mV	0.18 mV + 1.3 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	Up to 33 mV	58 µV + 1.2 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	Up to 33 mV	74 µV +2.4 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	Up to 33 mV	55 µV + 2.3 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	Up to 33 mV	62 µV +3.7 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	Up to 33 mV	0.43 mV + 0.82 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.13 mV + 2.7 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	49 µV + 0.53 mV/V	Fluke 5502A	GC 146	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	25 µV + 1.7 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	47 µV + 1.9 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	200 µV + 2.9 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.41 mV + 0.82 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	0.14 mV + 0.33 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	0.14 mV + 0.34 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	0.18 mV + 1.1 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	0.36 mV + 1.6 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	1.9 mV + 2.9 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	3.7 mV +6.2 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	3.5 mV + 1.7 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	4.3 mV + 0.38 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	20 mV + .92 mV	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	6.6 mV + 2.2 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	20 mV + 2.9 mV/V	Fluke 5502A	GC 146	F1, F3	F, O

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Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	20 mV + 0.92 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	20 mV + 0.92 mV/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.01 V + 5.9m V/V	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	Up to 10 mV	0.1 mV + 0.85 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	Up to 10 mV	17 µV + 0.23 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	Up to 10 mV	10 µV + 0.32 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	Up to 10 mV	1.4 µV + 1.2 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	Up to 10 mV	1.7 µV + 5.8 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	Up to 10 mV	4.2 µV + 46 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	10 mV to 100 mV	4.1 µV + 0.13 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	10 mV to 100 mV	13 µV + 48 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	10 mV to 100 mV	13 µV + 98 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	10 mV to 100 mV	9.3 µV + 0.12 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	10 mV to 100 mV	7.6 µV + 1.1 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	10 mV to 100 mV	16 µV + 3.4 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O

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Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	10 mV to 100 mV	82 µV + 11 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 2 MHz)	10 mV to 100 mV	61 µV + 17 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	0.1 V to 1 V	92 µV + 60 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	0.1 V to 1 V	64 µV + 71 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	0.1 V to 1 V	45 µV + 0.16 nV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	0.1 V to 1 V	63 µV + 0.15 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	0.1 V to 1 V	0.39 mV + 0.88 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	0.1 V to 1 V	0.13 mV + 3.7 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	0.1 V to 1 V	0.78 mV + 11 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 2 MHz)	0.1 V to 1 V	0.69 mV + 17 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	1 V to 10 V	0.73 mV + 77 mV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	1 V to 10 V	0.46 mV + 81 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	1 V to 10 V	0.22 mV + 18 µV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	1 V to 10 V	0.63 mV + 0.15 mV/mV	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	1 V to 10 V	0.8 mV + 1.1 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O

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Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	1 V to 10 V	1.3 mV + 3.7 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	1 V to 10 V	7.8 mV + 11 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 MHz to 2 MHz)	1 V to 10 V	6.9mV + 17 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	10 V to 100 V	4.5 mV + 0.24 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	10 V to 100 V	4.1 mV + 0.22 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	10 V to 100 V	4 mV + 0.23 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	10 V to 100 V	6 mV + 0.21 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	10 V to 100 V	5.5 mV + 1.5 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 100 kHz to 300 kHz)	10 V to 100 V	13 mV + 4.8 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 300 kHz to 1 MHz)	10 V to 100 V	78 mV +11 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 Hz to 40 Hz)	100 V to 1 000 V	81 mV + 0.43 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 40 Hz to 1 kHz)	100 V to 1 000 V	220 mV + 0.29 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 1 kHz to 20 kHz)	100 V to 1 000 V	190 mV + 0.71 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output AC Voltage (@ 20 kHz to 50 kHz)	100 V to 1 000 V	62 mV + 0.65 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O

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Electrical	Equipment to Output AC Voltage (@ 50 kHz to 100 kHz)	100 V to 1 000 V	40 mV + 3.5 mV/V	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Measure Resistance	2 Ω to 10.9 Ω	0.45 Ω + 5.5 μΩ/Ω	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 32.9 Ω	0.45 Ω + 6.2 μΩ/Ω	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 Ω to 109 Ω	0.45 Ω + 5.6 μΩ/Ω	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 Ω to 329 Ω	0.45 Ω + 8.3 μΩ/Ω	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 Ω to 1 090 Ω	0.48 Ω + 0.27 mΩ/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 KΩ to 3.29 KΩ	0.45 Ω + 54 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 KΩ to 10.9 KΩ	0.89 Ω + 95 mΩ/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 KΩ to 32.9 KΩ	1.5 Ω + 88 mΩ/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 KΩ to 109 KΩ	17 Ω + 86 mΩ/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 KΩ to 329 KΩ	15 Ω + 0.12 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	330 KΩ to 1 090 KΩ	160 Ω + 0.12 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1.1 MΩ to 3.29 MΩ	51 Ω + 0.19 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	3.3 MΩ to 10.9 MΩ	1.1 kΩ + 0.67 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	11 MΩ to 32.9 MΩ	12 kΩ + 0.96 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	33 MΩ to 109 MΩ	190 kΩ + 5.7 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure Resistance	110 MΩ to 330 MΩ	690 kΩ + 4.4 Ω/kΩ	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Resistance	Up to 10 Ω	1.9 mΩ + 1.4 μΩ/Ω	HP 3458A Opt.2 (4 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	10 Ω to 100 Ω	3.89 mΩ + 2.5 μΩ/Ω	HP 3458A Opt.2 (4 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	100 Ω to 1 kΩ	0.29 Ω + 1.2 mΩ /kΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O

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Electrical	Equipment to Source Resistance	1 kΩ to 10 kΩ	3.2 Ω + 3.9 mΩ/kΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	10 kΩ to 100 kΩ	3.2 Ω + 3.9 mΩ/kΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	100 kΩ to 1 MΩ	3.1 Ω + 26 Ω/MΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	1 MΩ to 10 MΩ	120 Ω + 60 Ω/MΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	10 MΩ to 100 MΩ	12 KΩ + 51 kΩ/MΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Source Resistance	100 MΩ to 1 GΩ	1.7 MΩ + 4.4 kΩ/MΩ	HP 3458A Opt.2 (2 wire Ω)	GC 174	F1, F3	F, O
Electrical	Equipment to Measure DC Current	0.02 mA to 3.2 mA	0.6 uA + 0.65 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Current	3.3 mA to 32 mA	6 uA + 0.038 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Current	33 mA to 320 mA	74 uA + 0.77 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Current	320 mA to 2.1 A	880 uA + 0.16 mA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure DC Current	2.2 A to 11 A	4.4 mA 0.69 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 nA to 100 nA	0.8 nA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	0.1 µA to 1 µA	0.01 + 8.1 nA/uA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 µA to 10 µA	0.8 nA + 9.3 pA/uA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	10 uA to 100 µA	0.56 pA + 33 pA/uA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	0.1 mA to 1 mA	7.7 nA + 28 nA/mA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 mA to 10 mA	7.6 nA + 28 nA/mA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	10 mA to 100 mA	0.59 µA + 46 nA/mA	HP 3458A/Opt 2	GC 174	F1, F3	F, O
Electrical	Equipment to Output DC Current	100 mA to 1 000 mA	12 µA + 13 µA/mA	HP 3458A/Opt 2	GC 174	F1, F3	F, O

Certificate of Accreditation: Supplement

Global Calibration, LLC
1507-11 Smithtown Avenue, Bohemia, NY 11716
Contact Name: Mr. Charles Mahoney Phone: 631-750-5663

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Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	Up to 330 uA	0.95 µA + 2.5 µA/mV	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	Up to 330 uA	1.1 µA + 3 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	Up to 330 uA	0.94 µA + 4.7 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	Up to 330 uA	0.89 µA + 6.1 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	Up to 330 uA	0.82 µA + 17 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	0.33 mA to 3.3 mA	1.6 uA + 2 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	0.33 mA to 3.3 mA	1.1 µA + 2.3 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.3 mA	1.2 µA + 1.1 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 mA to 3.3 mA	1.4 µA + 5 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 mA to 3.3 mA	1.3 µA + 13 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 33 mA	7.1 µA + 2.6 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 33 mA	6.7 µA + 2.4 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 33 mA	7.7 µA + 1.2 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 33 mA	25 µA + 3 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 33 mA	5.8 µA + 9.4 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	33 mA to 330 mA	0.54 mA + 1.7 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	33 mA to 330 mA	0.55 mA + 1.3 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 330 mA	570 µA + 0.48 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	33 mA to 330 mA	0.89 µA + 6.1 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	33 mA to 330 mA	55 µA + 7.8 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	0.33 A to 2.1 A	7.5 mA + 0.55 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 A to 2.1 A	7.1 mA + 0.51 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 A to 2.1 A	3.5 mA + 14 µA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 65 Hz)	2.2 A to 11 A	57 mA + 0.47 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 65 Hz to 500 Hz)	2.2 A to 11 A	58 mA + 0.3 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Measure AC Current (@ 500 kHz to 1 kHz)	2.2 A to 11 A	53 mA + 3.2 uA/mA	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	0.33 nF to 0.49 nF	12 pF + 0.005 9 pF/pF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	0.5 nF to 1.09 nF	1.7 pF + 16.2 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	1.1 nF to 3.29 nF	12 pF + 6 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	3.3 nF to 10.09 nF	12 pF + 5.9 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	11 nF to 32.9 nF	0.22 nF + 0.16 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	33 nF to 109 nF	0.59 nF + 1.4 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O

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Electrical	Equipment to Source Capacitance	110 nF to 329 nF	3.8 nF + 7.1 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	0.33 uF to 10.09 uF	80 nF + 0.092 nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	11 uF to 32.9 uF	0.15 nF + 5.9nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	33 uF to 100.9 uF	170 nF + 5.3nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	110 uF to 329 uF	350 nF + 8.2nF/uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Equipment to Source Capacitance	330 uF to 1.1 mF	3.3 uF	Fluke 5502A	GC 146	F1, F3	F, O
Electrical	Oscilloscopes (DC Voltage)	500 µV to 130 V 1 MΩ	29 µV + 0.29 µV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (DC Voltage)	200 µV to 6.6 V 50 Ω	46 µV + 2.9 µV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 50 kHz)	5 mV to 5.5 Vp-p	0.34 mV + 24 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 50 kHz to 100 MHz)	5 mV to 5.5 Vp-p	0.35 mV + 42 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 100 MHz to 300 MHz)	5 mV to 5.5 Vp-p	0.37 mV + 41 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 300 MHz to 500 MHz)	5 mV to 5.5 Vp-p	0.35 mV + 65 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 500 MHz to 600 MHz)	5 mV to 5.5 Vp-p	0.35 mV + 70 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 600 MHz to 1.1 GHz)	5 mV to 5.5 Vp-p	0.35 mV + 82 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O

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Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 1.1 GHz to 1.6 GHz)	5 mV to 5.5 Vp-p	0.35 mV + 82 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Leveled Sine Wave Reference) (@ 1.6 GHz to 2.1 GHz)	5 mV to 5.5 Vp-p	0.35 mV + 94 mV/V (p-p)	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 50Ω Load) (> 1 kHz)	1 mV to 24.9 mV	44 uV + 3.1 uV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 50Ω Load) (> 1 kHz)	25 mV to 109 mV	46 uV + 2.9 uV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 50Ω Load) (> 1 kHz)	110 mV to 2.1 V	57 uV + 2.9 uV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 50Ω Load) (> 1 kHz)	2.2 V to 6.6 V	-87 uV + 3.0 uV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 1 MΩ Load) (10 Hz to 10 kHz)	1 mV to 24.9 mV	46 µV + 0.59 µV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 1 MΩ Load) (10 Hz to 10 kHz)	25 mV to 109 mV	46 µV + 0.61 µV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 1 MΩ Load) (10 Hz to 10 kHz)	110 mV to 2.1 V	83 µV + 0.33 µV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 1 MΩ Load) (10 Hz to 10 kHz)	2.2 V to 10.9 V	530 µV + 0.58 µV/mV	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes (Square wave 1 MΩ Load) (10 Hz to 10 kHz)	11 V to 130 V	47 mV + 0.65 mV/V	Fluke 5820A	GC 120	F1, F3	F, O
Electrical	Oscilloscopes Input Resistance Measurement	40 Ω to 60 Ω	2.6 mΩ + 1.3 mΩ/Ω	Fluke 5820A Oscilloscope Calibrator Fluke user manual DUT Manual	GC 120	F1, F3	F, O

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Electrical	Oscilloscopes Input Resistance Measurement	500 kΩ to 1.5 MΩ	25 Ω + 1.2 kΩ/MΩ	Fluke 5820A Oscilloscope Calibrator Fluke user manual DUT Manual	GC 120	F1, F3	F, O
Electrical	Oscilloscopes Input Capacitance Measurement	5 pF to 50 pF	0.58 pF + 0.058 pF/pF	Fluke 5820A Oscilloscope Calibrator Fluke user manual DUT Manual	GC 120	F1, F3	F, O
Electrical	Thermocouple Simulation Type N	-200 °C to -100 °C	0.47 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type N	-100 °C to -25 °C	0.32° C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type N	-25 °C to 410 °C	0.3 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type N	410 °C to 1 300 °C	0.36 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type K	-200 °C to -100 °C	0.41°C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type K	-100 °C to -25 °C	0.3 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type K	-25 °C to 120 °C	0.29 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type K	120 °C to 1 000 °C	0.35 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type K	1 000 °C to 1 372 °C	0.46 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type R	0 °C to 250 °C	0.62 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type R	250 °C to 400 °C	0.43 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type R	400 °C to 1 000 °C	0.41 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type R	1 000 °C to 1 767 °C	0.46 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type S	0 °C to 250 °C	0.53 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type S	250 °C to 1 000 °C	0.43 °C	Fluke 5502A	GC 106	F1, F3	F, O

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Electrical	Thermocouple Simulation Type S	1 000 °C to 1 400 °C	0.44 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type S	1 400 °C to 1 767 °C	0.52 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type T	-250 °C to -150 °C	0.67 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type T	-150 °C to 0 °C	0.34 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type T	0 °C to 120 °C	0.29 °C	Fluke 5502A	GC 106	F1, F3	F, O
Electrical	Thermocouple Simulation Type T	120 °C to 400 °C	0.27 °C	Fluke 5502A	GC 106	F1, F3	F, O
Thermodynamic	Thermocouples (Type K)	50 °C to 660 °C	0.13 + (0.000 608T) °C	Dry Well, SPRT, & HP 3458	GC 148	F1, F3	F
Thermodynamic	Thermocouples (Type N)	50 °C to 660 °C	0.19 + (0.000 785T) °C	Dry Well, SPRT, & HP 3458	GC 148	F1, F3	F
Thermodynamic	Thermocouples (Type T)	50 °C to 400 °C	0.13 + (0.000 737T) °C	Dry Well, SPRT, & HP 3458	GC 148	F1, F3	F
Thermodynamic	Temperature Measuring Systems	-30 °C to 420 °C	~~New~~ 0.22°C	Fluke Dry Block & SPRT	GC 128	F1, F3	F
Thermodynamic	Temperature Blocks	-30 °C to 140 °C	0.000022°C + 0.022 °C/ °C	Fluke 1521 & SPRT in water	GC 115	F1, F3	F
Thermodynamic	Temperature Chambers, Ovens, Incubators	-30 °C to 200 °C	0.93 °C	"T" Thermocouples & Readout	GC 137	F1, F3	O
Mechanical	Pressure Gauge	0 inWC to 10 inWC	(0.006 3 + 0.000 012 9 P) inWC	Ashcroft ATE & AQS1-10	GC 105B	F1, F3	F, O
Mechanical	Pressure Gauge	0 inWC to 200 inWC	0.13 inWC	Ashcroft ATE & HQS1-200	GC 105B	F1, F3	F, O
Mechanical	Pressure Gauge	0 inWC to 20 inWC	0.000 94 + (0.000 051 3 .9 P) inWC	Fluke 7250LP	GC 105B	F1, F3	F, O
Mechanical	Pressure Gauge	20 to 60 inWC	0.000 32 + (000 095 9 P) inWC	Fluke 7250LP	GC 105B	F1, F3	F, O

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Mechanical	Pressure Gauge	0 Psig to 250 Psig	(0.005 7 + 0.001 3 P) Psig	Druck DPI 310A	GC 105B	F1, F3	F, O
Mechanical	Pressure Gauge	250 Psig to 1 250 Psig	(0.005 5 + 0.001 2 P) Psig	Druck DPI 310A	GC 105B	F1, F3	F, O
Mechanical	Pressure Gauge	1 250 psig to 6 250 psig	(0.009 1 + 0.001 1 P) psig	Druck DPI 310A	GC 105B	F1, F3	F, O
Mechanical	Pressure Gauge	6 250 psig to 12 500 psig	(0.078 + 0.001 4 P) psig	Druck DPI 310A	GC 105B	F1, F3	F, O
Mechanical	Torque Analyzers	5 lbf•in to 100 lbf•in	0.006 9 + (0.000 795 TQ) lbf•in	Torque Wheel 5” & Class F weights	GC 117	F1, F3	F
Mechanical	Torque Analyzers	10 lbf•in to 500 lbf•in	0.11 + (0.000 55 TQ) lbf•in	Torque Wheel 10” & Class F weights	GC 117	F1, F3	F
Mechanical	Torque Analyzers	360 lbf•in to 2 400 lbf•in	0.38 + (0.000 09 TQ) lbf•in	Torque Arm 36” & Class F weights	GC 117	F1, F3	F
Mechanical	Torque Analyzers	40 lbf•in to 1 000 lbf•ft	0.087 + (0.000 097 TQ) lbf•ft	Torque Arm 48” & Class F weights	GC 117	F1, F3	F
Mechanical	Torque Wrenches	10 lbf•in to 100 lbf•in	0.25 + (0.004 04 TQ) lbf•in	Torque Analyzer/ Tester	GC 118	F1, F3	F, O
Mechanical	Torque Wrenches	120 lbf•in to 600 lbf•in	2.8 + (0.000 717 TQ) lbf•in	Torque Analyzer/ Tester	GC 118	F1, F3	F, O
Mechanical	Torque Wrenches	50 lbf•ft to 250 lbf•ft	0.58 + (0.001 22 TQ) lbf•ft	Torque Analyzer/ Tester	GC 118	F1, F3	F, O
Mechanical	Gas Flow Meters	2 sccm to 20 sccm	0.028 sccm + 0.001 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O

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Mechanical	Gas Flow Meters	20 sccm to 200 sccm	0.16 sccm + 0.001 5 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O
Mechanical	Gas Flow Meters	10 sccm to 100 sccm	0.13 sccm + 0.001 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O
Mechanical	Gas Flow Meters	100 sccm to 1 000 sccm	0.47 sccm + 0.018 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O
Mechanical	Gas Flow Meters	50 sccm to 500 sccm	0.59 sccm + 0.1 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O
Mechanical	Gas Flow Meters	500 sccm to 5 000 sccm	1.2 sccm + 0.001 9 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O

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Mechanical	Gas Flow Meters	100 sccm to 1 000 sccm	1.3 sccm + 0.000 71 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O
Mechanical	Gas Flow Meters	1 000 sccm to 10 000 sccm	4.5 sccm + 0.019 sccm/sccm	Fluke-DH Molbox RFM-M Molboc 2E2 Molboc 1SLM Molboc 5E3 Molboc 10SLM	GC 121	F1, F3	F, O
Mechanical	Liquid Flow Meters	0.1 Gpm to 15 Gpm	0.002 9 Gpm + 0.000 837 Gpm/Gpm	Coriolis Flow meters	GC 109	F1, F3	F, O
Mechanical	Liquid Flow Meters	15 Gpm to 300 Gpm	0.038 Gpm + 0.001 67 Gpm/Gpm	Coriolis Flow meters	GC 109	F1, F3	F, O
Time and Frequency	Stopwatches, Timers	Up to 24 hrs	0.059 s/day	Vibrograf Timometer	GC 138	F1, F3	F, O
Time and Frequency	Equipment to Measure Frequency	2 Hz to 100 Hz	0.58 Hz + 0.14 uHz/Hz	Fluke 5500 fluke user manual DUT Manual	GC 146 Fluke user manual DUT Manual	F1, F2, F3	F, O
Time and Frequency	Equipment to Measure Frequency	100 Hz to 100 KHz	0.58 Hz + 59 uHz/Hz	Fluke 5500	GC 146 Fluke user manual DUT Manual	F1, F2, F3	F, O
Time and Frequency	Equipment to Measure Frequency	100 KHz to 2 MHz	0.0 Hz + 1 mHz/Hz	Fluke 5500	GC 146 Fluke user manual DUT Manual	F1, F2, F3	F, O
Time and Frequency	Oscilloscopes Time Marker	2 ns to 5 ns	0.58 ps/ns	Fluke 5820A	GC 120	F1, F3	F, O
Time and Frequency	Oscilloscopes Time Marker	10 ns	6 ps	Fluke 5820A	GC 120	F1, F3	F, O

Certificate of Accreditation: Supplement

Global Calibration, LLC

1507-11 Smithtown Avenue, Bohemia, NY 11716
Contact Name: Mr. Charles Mahoney Phone: 631-750-5663

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
Time and Frequency	Oscilloscopes Time Marker	20 ns to 50 ns	0.58 ps/ns	Fluke 5820A	GC 120	F1, F3	F, O
Time and Frequency	Oscilloscopes Time Marker	100 ns to 20 ms	77 ps/ns	Fluke 5820A	GC 120	F1, F3	F, O
Time and Frequency	Oscilloscopes Time Marker	50 ms to 5 s	580 ps/ms	Fluke 5820A	GC 120	F1, F3	F, O
Time and Frequency	Oscilloscopes Rise Time (@ 50 Ω load)	720 ps	176 ps	Fluke 5820A	GC 120	F1, F3	F, O
Dimensional	Calipers	Up to 12 in	290 µin + 2.9 µin/in	Gage Blocks and Plain Ring Gage	GC 124	F1, F3	F, O
Dimensional	Calipers	12 in to 24 in	370 µin + 1.7 µin/in	Gage Blocks and Plain Ring Gage	GC 124	F1, F3	F, O
Dimensional	Calipers	24 in to 60 in	31 µin + 0.5 µin/in	Gage Blocks and Plain Ring Gage	GC 124	F1, F3	F, O
Dimensional	Micrometers (Outside / Inside)	Up to 1 in	56 µin + 1.9 µin/in	Gage Blocks	GC 164	F1, F3	F, O
Dimensional	Micrometers (Outside / Inside)	1 in to 6 in	51 µin + 3.33 µin/in	Gage Blocks	GC 164	F1, F3	F, O
Dimensional	Indicators	Up to 1 in	49 µin + 9 µin/in	Gage Blocks	GC 129	F1, F3	F
Dimensional	Thread Plug Gages (Pitch Diameter)	Up to 4 in	41 µin + 17 µin/in	Super micrometer, Thread wires and Gage Blocks	GC 162	F1, F3	F
Dimensional	Thread Plug Gages (Major Diameter)	Up to 4 in	56 µin + 2.3 µin/in	Super Micrometer & Gage Blocks	GC 162	F1, F3	F
Dimensional	Gage Block (GGG3 & B89 grade 0)	0.1 in to 1 in	2 µin + 3.7 µin/L	Master Gage Blocks & Comparator	GC 113	F1, F3	F
Dimensional	Gage Block (GGG3 & B89 grade 0)	2 mm to 25.4 mm	55 nm + 5.75 nm/L	Master Gage Blocks & Comparator	GC 113	F1, F3	F
Dimensional	Gage Block (GGG3 & B89 grade 0)	1 in to 7 in	1.2 µin + 5.3 µin/L	Master Gage Blocks & Comparator	GC 113	F1, F3	F
Dimensional	Gage Block (GGG3 & B89 grade 0)	25 mm to 180 mm	0.17 µm + 4.5 nm/L	Master Gage Blocks & Comparator	GC 113	F1, F3	F

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Dimensional	Ring Gauges	0.5 to 14 in	10 µin + L 5.6 µin	Gauge Blocks & Master Gauge Rings	GC 183	F1, F3	F

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 L represents length in inches or millimeters as appropriate to the uncertainty statement.

6. The term P represents pressure in units appropriate to the uncertainty statement.