PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Accredited Labs dba Industrial Calibration and Service (In-Cal)

71C Pine Road, Hudson, NH 03051

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017
& Meets the Requirements of ANSI/NCSI Z540.3-2006 sub-clause 5.3 and Z540-1-1994

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Dimensional, Electrical, Mass, Force, and Weighing Devices, Mechanical, Thermodynamic, and Time & 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:

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:*
April 14, 2008	September 03, 2026	December 31, 2028

Accreditation No.:	*Certificate No.:*
60725	L26-802

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

Accredited Labs dba Industrial Calibration and Service (In-Cal)

71C Pine Road, Hudson, NH 03051
Contact Name: Liz Ward Phone: 603-883-5558

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 AC Current (@ 10 Hz to 20 Hz)	29 µA to 330 µA	0.2 % of Reading + 0.1 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	29 µA to 330 µA	0.15 % of Reading + 0.1 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	29 µA to 330 µA	0.13 % of Reading + 0.1 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	29 µA to 330 µA	0.8 % of Reading + 0.2 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	29 µA to 330 µA	1.6 % of Reading + 0.4 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	0.33 mA to 3.3 mA	0.2 % of Reading + 0.15 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	0.33 mA to 3.3 mA	0.13 % of Reading + 0.15 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 mA to 3.3 mA	0.1 % of Reading + 0.15 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 mA to 3.3 mA	0.2 % of Reading + 0.2 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 mA to 3.3 mA	0.5 % of Reading + 0.3 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	0.33 mA to 3.3 mA	1 % of Reading + 0.6 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	3.3 mA to 33 mA	0.18 % of Reading + 2 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	3.3 mA to 33 mA	0.09 % of Reading + 2 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	3.3 mA to 33 mA	0.04 % of Reading + 2 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3.3 mA to 33 mA	0.08 % of Reading + 2 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	3.3 mA to 33 mA	0.2 % of Reading + 3 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	3.3 mA to 33 mA	0.4 % of Reading + 4 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 20 Hz)	33 mA to 330 mA	0.18 % of Reading + 20 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 20 Hz to 45 Hz)	33 mA to 330 mA	0.09 % of Reading + 20 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	33 mA to 330 mA	0.04 % of Reading + 20 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	33 mA to 330 mA	0.1 % of Reading + 50 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	33 mA to 330 mA	0.2 % of Reading + 100 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 kHz to 30 kHz)	33 mA to 330 mA	0.4 % of Reading + 200 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	0.33 A to 1.1 A	0.18 % of Reading + 100 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	0.33 A to 1.1 A	0.05 % of Reading + 100 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	0.33 A to 1.1 A	0.6 % of Reading + 1 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	0.33 A to 1.1 A	2.5 % of Reading + 5 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 10 Hz to 45 Hz)	1.1 A to 3 A	0.18 % of Reading + 100 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 1 kHz)	1.1 A to 3 A	0.05 % of Reading + 100 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	1.1 A to 3 A	0.6 % of Reading + 1 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O

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Electrical	Equipment to Measure AC Current (@ 5 kHz to 10 kHz)	1.1 A to 3 A	2.5 % of Reading + 5 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	3 A to 11 A	0.06 % of Reading + 2 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	3 A to 11 A	0.1 % of Reading + 2 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	3 A to 11 A	3 % of Reading + 2 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 45 Hz to 100 Hz)	11 A to 20.5 A	0.12 % of Reading + 5 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 100 Hz to 1 kHz)	11 A to 20.5 A	0.15 % of Reading + 5 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Current (@ 1 kHz to 5 kHz)	11 A to 20.5 A	3 % of Reading + 5 000 µA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 2 kHz)	Up to 10 µA	0.21 % of Reading + 2.5 nA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	Up to 10 µA	0.21 % of Reading + 2.5 nA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	Up to 10 µA	0.21 % of Reading + 2.5 nA	Multifunction Calibrator	OEM Manual IC-EL-7	F1, F2, F3	F, O

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Electrical	Equipment to Output AC Current (@ 1 Hz to 2 kHz)	10 µA to 100 µA	0.029 % of Reading + 5 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	10 µA to 100 µA	0.054 % of Reading + 5 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	10 µA to 100 µA	0.075 % of Reading + 5 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 30 kHz to 100 kHz)	10 µA to 100 µA	0.41 % of Reading + 10 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 2 kHz)	0.1 mA to 1 mA	0.029 % of Reading + 50 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	0.1 mA to 1 mA	0.054 % of Reading + 50 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	0.1 mA to 1 mA	0.075 % of Reading + 50 nA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 30 kHz to 100 kHz)	0.1 mA to 1 mA	0.41 % of Reading + 0.1 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 2 kHz)	1 mA to 10 mA	0.029 % of Reading + 0.5 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	1 mA to 10 mA	0.054 % of Reading + 0.5 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O

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Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	1 mA to 10 mA	0.075 % of Reading + 0.5 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 30 kHz to 100 kHz)	1 mA to 10 mA	0.41 % of Reading + 1 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 2 kHz)	10 mA to 100 mA	0.028 % of Reading + 5 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	10 mA to 100 mA	0.052 % of Reading + 5 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	10 mA to 100 mA	0.074 % of Reading + 5 µA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 1 Hz to 2 kHz)	100 mA to 1 A	0.03 % of Reading + 0.1 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	100 mA to 1 A	0.055 % of Reading + 0.1 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 kHz to 30 kHz)	100 mA to 1 A	0.079 % of Reading + 0.1 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 10 Hz to 2 kHz)	1 A to 10 A	0.084 % of Reading + 0.5 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	1 A to 10 A	0.084 % of Reading + 0.5 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O

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Electrical	Equipment to Output AC Current (@ 10 Hz to 2 kHz)	10 A to 30 A	0.084 % of Reading + 12 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Output AC Current (@ 2 kHz to 10 kHz)	10 A to 30 A	0.013 % of Reading + 12 mA	8.5 Digit Multimeter	OEM Manual IC-EL-7	F1, F2, F3	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 Mv	800 µV/V + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	150 µV/V + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	200 µV/V + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	1 000 µV/V 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	3 500 µV/V 12 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	8 000 µV/V + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	300 µV/V + 8 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	800 µV/V + 32 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	2 000 µV/V + 70 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	300 µV/V + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	300 µV/V + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	700 µV/V + 125 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	2 400 µV/V + 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	300 µV/V + 650 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	240 µV/V + 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	350 µV/V + 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	900 µV/V + 1 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	1 mV to 33 mV	0.08 % of Reading + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	1 mV to 33 mV	0.015 % of Reading + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	1 mV to 33 mV	0.02 % of Reading + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	1 mV to 33 mV	0.1 % of Reading + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	1 mV to 33 mV	0.35 % of Reading + 12 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	1 mV to 33 mV	0.8 % of Reading + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	33 mV to 330 mV	0.03 % of Reading + 8 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	33 mV to 330 mV	0.013 % of Reading + 8 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 mV to 330 mV	0.015 % of Reading + 8 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 mV to 330 mV	0.035 % of Reading + 8 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 mV to 330 mV	0.08 % of Reading + 32 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	33 mV to 330 mV	0.2 % of Reading + 70 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	0.33 V to 3.3 V	0.03 % of Reading + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	0.33 V to 3.3 V	0.012 % of Reading + 25 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	0.33 V to 3.3 V	0.019 % of Reading + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	0.33 V to 3.3 V	0.03 % of Reading + 50 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	0.33 V to 3.3 V	0.07 % of Reading + 125 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz)	0.33 V to 3.3 V	0.24 % of Reading + 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz)	3.3 V to 33 V	0.03 % of Reading + 650 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz)	3.3 V to 33 V	0.015 % of Reading + 200 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	3.3 V to 33 V	0.024 % of Reading + 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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71C Pine Road, Hudson, NH 03051
Contact Name: Liz Ward Phone: 603-883-5558

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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 AC Voltage (@ 20 kHz to 50 kHz)	3.3 V to 33 V	0.035 % of Reading + 600 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	3.3 V to 33 V	0.09 % of Reading + 1.6 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	33 V to 330 V	0.019 % of Reading + 2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz)	33 V to 330 V	0.02 % of Reading + 6 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz)	33 V to 330 V	0.025 % of Reading + 6 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz)	33 V to 330 V	0.03 % of Reading + 6 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz)	33 V to 330 V	0.2 % of Reading + 50 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz)	330 V to 1 020 V	0.03 % of Reading + 10 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz)	330 V to 1 020 V	0.025 % of Reading + 10 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz)	330 V to 1 020 V	0.03 % of Reading + 10 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 Hz to 40 Hz)	1 mV to 10 mV	0.03 % of Reading + 3 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 40 Hz to 1 kHz)	1 mV to 10 mV	0.02 % of Reading + 1.1 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 kHz to 20 kHz)	1 mV to 10 mV	0.03 % of Reading + 1.1 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 20 kHz to 50 kHz)	1 mV to 10 mV	0.1 % of Reading + 1.1 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 50 kHz to 100 kHz)	1 mV to 10 mV	0.5 % of Reading + 1.1 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 100 kHz to 300 kHz)	1 mV to 10 mV	4 % of Reading + 2 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 Hz to 40 Hz)	100 mV to 10 V	0.007 % of Reading + 0.4 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 40 Hz to 1 kHz)	100 mV to 10 V	0.007 % of Reading + 0.2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 kHz to 20 kHz)	100 mV to 10 V	0.014 % of Reading + 0.2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 20 kHz to 50 kHz)	100 mV to 10 V	0.03 % of Reading + 0.2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 50 kHz to 100 kHz)	100 mV to 10 V	0.08 % of Reading + 0.2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 100 kHz to 300 kHz)	100 mV to 10 V	0.3 % of Reading + 1 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 300 kHz to 1 MHz)	100 mV to 10 V	1 % of Reading + 1 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 MHz to 2 MHz)	100 mV to 10 V	1.5 % of Reading + 1 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 Hz to 40 Hz)	10 V to 100 V	0.02 % of Reading + 4 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 40 Hz to 1 kHz)	10 V to 100 V	0.02 % of Reading + 2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 kHz to 20 kHz)	10 V to 100 V	0.02 % of Reading + 2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 20 kHz to 50 kHz)	10 V to 100 V	0.035 % of Reading + 2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 50 kHz to 100 kHz)	10 V to 100 V	0.12 % of Reading + 2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 100 kHz to 300 kHz)	10 V to 100 V	0.4 % of Reading + 10 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 300 kHz to 1 MHz)	10 V to 100 V	1.5 % of Reading + 10 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 Hz to 40 Hz)	100 V to 1 000 V	0.04 % of Reading + 40 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 40 Hz to 1 kHz)	100 V to 1 000 V	0.04 % of Reading + 20 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 1 kHz to 20 kHz)	100 V to 1 000 V	0.06 % of Reading +20 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 20 kHz to 50 kHz)	100 V to 1 000 V	0.12 % of Reading + 20 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth < 2 MHz) (@ 50 kHz to 100 kHz)	100 V to 1 000 V	0.3 % of Reading + 20 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 45 Hz to 100 kHz)	0.01 mV to 10 mV	0.09 % of Reading + 6 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 100 kHz to 1 MHz)	0.01 mV to 10 mV	1.2 % of Reading + 5 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 1 MHz to 4 MHz)	0.01 mV to 10 mV	7 % of Reading + 7 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 4 MHz to 8 MHz)	0.01 mV to 10 mV	20 % of Reading + 8 µV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 45 Hz to 100 kHz)	100 mV to 10 V	0.09 % of Reading + 6 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 100 kHz to 1 MHz)	100 mV to 10 V	2 % of Reading + 5 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 1 MHz to 4 MHz)	100 mV to 10 V	4 % of Reading + 7 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 4 MHz to 8 MHz)	100 mV to 10 V	4 % of Reading + 8 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 8 MHz to 10 MHz)	100 mV to 10 V	15 % of Reading + 10 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 45 Hz to 100 kHz)	10 V to 100 V	0.12 % of Reading + 2 mV	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure AC Voltage (Bandwidth > 2 MHz) (@ 45 Hz to 100 kHz)	100 V to 1 000 V	0.3 % of Reading + 0.1 V	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type B	600 °C to 800 °C	0.44 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	0.34 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type B	1 000 °C to 1 550 °C	0.3 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type B	1 550 °C to 1 820 °C	0.33 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type C	0 °C to 150 °C	0.3 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type C	150 °C to 650 °C	0.26 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type C	650 °C to 1 000 °C	0.31 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type C	1 000 °C to 1 800 °C	0.5 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type C	1 800 °C to 2 316 °C	0.84 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type E	-250 °C to -100 °C	0.5 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type E	-100 °C to -25 °C	0.16 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type E	-25 °C to 350 °C	0.14 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type E	350 °C to 650 °C	0.16 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type E	650 °C to 1 000 °C	0.21 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type J	-210 °C to -180 °C	0.12 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type J	-180 °C to -120 °C	0.10 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type J	-120 °C to -50 °C	0.08 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type J	-50 °C to 990 °C	0.07 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type J	990 °C to 1 200 °C	0.07 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type K	-255 °C to -195 °C	0.7 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type K	-195 °C to -115 °C	0.12 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type K	-115 °C to -55 °C	0.09 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type K	-55 °C to 1 000 °C	0.07 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type K	1 000 °C to 1 372 °C	0.08 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type L	-200 °C to -100 °C	0.37 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type L	-100 °C to 800 °C	0.26 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type L	800 °C to 900 °C	0.17 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type N	-200 °C to -100 °C	0.4 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type N	-100 °C to -25 °C	0.22 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type N	-25 °C to 120 °C	0.19 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type N	120 °C to 410 °C	0.18 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type N	410 °C to 1 300 °C	0.27 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type R	0 °C to 250 °C	0.57 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type R	250 °C to 400 °C	0.35 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type R	400 °C to 1 000 °C	0.33 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type R	1 000 °C to 1 767 °C	0.4 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type S	0 °C to 250 °C	0.47 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O

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71C Pine Road, Hudson, NH 03051
Contact Name: Liz Ward Phone: 603-883-5558

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	Temperature Calibration, Indication and control Equipment used with Thermocouple Type S	250 °C to 1 000 °C	0.36 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type S	1 000 °C to 1 400 °C	0.37 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type S	1 400 °C to 1 767 °C	0.46 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type T	-250 °C to -150 °C	0.63 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type T	-150 °C to 0 °C	0.24 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type T	0 °C to 120 °C	0.16 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with Thermocouple Type T	120 °C to 400 °C	0.14 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	-200 °C to 0 °C	0.56 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment Used with Thermocouple Type U	0 °C to 600 °C	0.27 °C	Electrical Simulation of Thermocouple Output Ectron 1140A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt 395, 100 Ω	-200 °C to 800 °C	0.23 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt 3926, 100 Ω	-200 °C to 630 °C	0.12 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt 3916, 100 Ω	-200 °C to 630 °C	0.25 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt 385, 200	-200 °C to 630 °C	0.16 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt 385, 500 Ω	-200 °C to 630 °C	0.11 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O

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Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt 385, 1 000 Ω	-200 °C to 630 °C	0.23 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Pt Ni 385, 120 Ω	-80 °C to 260 °C	0.14 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Temperature Calibration, Indication and control Equipment used with RTD Type Cu 427, 10 Ω	-100 °C to 260 °C	0.3 °C	Electrical Simulation of RTD Output Fluke 5520A Fluke 5522A Fluke 5730A	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	Up to 11 Ω	40 μΩ/Ω + 1 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 Ω to 33 Ω	30 μΩ/Ω + 1.5 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 Ω to 110 Ω	28 μΩ/Ω + 1.4 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 Ω to 330 Ω	28 μΩ/Ω + 2 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 Ω to 1.1 kΩ	28 μΩ/Ω + 2 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.1 kΩ to 3.3 kΩ	28 μΩ/Ω + 20 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	3.3 kΩ to 11 kΩ	28 μΩ/Ω + 20 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure Resistance	11 kΩ to 33 kΩ	28 μΩ/Ω + 200 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 kΩ to 110 kΩ	28 μΩ/Ω + 200 mΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 kΩ to 330 kΩ	32 μΩ/Ω + 2 Ω	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 kΩ to 1.1 MΩ	32 μΩ/Ω + 2 Ω	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	1.1 MΩ to 3.3 MΩ	60 μΩ/Ω + 30 Ω	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	3.3 MΩ to 11 MΩ	130 μΩ/Ω + 50 Ω	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	11 MΩ to 33 MΩ	250 μΩ/Ω + 2.5 kΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	33 MΩ to 110 MΩ	500 μΩ/Ω + 3 kΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	110 MΩ to 330 MΩ	0.3 mΩ/Ω + 100 kΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Resistance	330 MΩ to 1 100 MΩ	1.5 mΩ/Ω + 500 kΩ	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Output Resistance	Up to 2 Ω	21.0 μΩ/Ω of Reading + 4.0 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	2 Ω to 20 Ω	12.0 μΩ/Ω of Reading + 1.4 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	20 Ω to 200 Ω	11.0 μΩ/Ω of Reading + 0.5 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	200 Ω to 2 kΩ	9.8 μΩ/Ω of Reading + 0.5 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	2 kΩ to 20 kΩ	9.7 μΩ/Ω of Reading + 0.5 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O

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Electrical	Equipment to Output Resistance	20 kΩ to 200 kΩ	10.0 μΩ/Ω of Reading + 0.5 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	200 kΩ to 2 MΩ	12.0 μΩ/Ω of Reading + 1.0 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	2 MΩ to 20 MΩ	27.0 μΩ/Ω of Reading + 1.0 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	20 MΩ to 200 MΩ	130.0 μΩ/Ω of Reading + 10.0 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	200 MΩ to 2 GΩ	2 400.0 μΩ/Ω of Reading + 100.0 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Output Resistance	2 GΩ to 10 GΩ	4 300.0 μΩ/Ω of Reading + 1 000.0 μΩ/Ω of range	Fluke 8588A	IC-EL-1 OEM Manual	F1, F2, F3	F, O
Electrical	Equipment to Measure Capacitance	220 pF to 400 pF	10 pF + 0.5 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	400 pF to 1.1 nF	0.01 nF + 0.5 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 nF to 3.3 nF	0.01 nF + 0.5 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 nF to 11 nF	0.01 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 nF to 33 nF	0.1 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 nF to 110 nF	0.1 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 nF to 330 nF	0.3 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	330 nF to 1.1 μF	1 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O

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Electrical	Equipment to Measure Capacitance	1.1 µF to 3.3 µF	3 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 µF to 11 µF	10 nF + 0.25 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 µF to 33 µF	30 nF + 0.4 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 µF to 110 µF	100 nF + 0.45 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	110 µF to 330 µF	300 nF + 0.45 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	330 µF to 1.1 mF	1 µF + 0.45 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	1.1 mF to 3.3 mF	3 µF + 0.45 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	3.3 mF to 11 mF	10 µF + 0.45 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	11 mF to 33 mF	30 µF + 0.75 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Equipment to Measure Capacitance	33 mF to 110 mF	100 µF + 1.1 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Electrical	Oscilloscope DC Voltage Amplitude (50 Ω)	Up to 6.6 V (Vp-p)	1.9 mV/V + 40 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Electrical	Oscilloscope DC Voltage Amplitude (1 MΩ)	Up to 120 V (Vp-p)	410 µV/V + 40 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Electrical	Oscilloscope Square Wave Amplitude (50 Ω) (@ 40 Hz to 1 kHz)	1 mV to 6.6 V (Vp-p)	1.9 mV/V + 40 µV	Fluke 5560A/2G	OEM Manual	F0	F, O

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Electrical	Oscilloscope - Square Wave Amplitude (1 MΩ) (@ 40 to 1 kHz)	1 mV to 120 V (Vp-p)	810 µV/V + 40 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Electrical	Oscilloscope Leveled Sine Wave (@ 50 kHz to 10 MHz)	5 mV to 5.5 V (Vp-p)	13 mV/V + 1 000 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Electrical	Oscilloscope Leveled Sine Wave (@ 10 MHz to 600 MHz)	5 mV to 5.5 V (Vp-p)	24 mV/V + 1 000 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Electrical	Oscilloscope Leveled Sine Wave (@ 600 MHz to 1.1 GHz)	5 mV to 3.5 V (Vp-p)	32 mV/V + 1 000 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Electrical	Oscilloscope Leveled Sine Wave (@ 1.1 GHz to 2.1 GHz)	5 mV to 3.5 V (Vp-p)	40 mV/V + 1 000 µV	Fluke 5560A/2G	OEM Manual	F0	F, O
Dimensional	Gage Blocks	0.05 in to 4 in	(2 + 1.1L) µin	Gage Block Comparator	IC-DM-1	F1, F3	F
Dimensional	Gage Blocks	0.05 in to 14 in	(3 + 1.1L) µin	P&W Labmaster	IC-DM-1	F1, F3	F
Dimensional	Outside Micrometers	0.05 in to 40 in	(55 + 18L) µin	Gage Blocks	IC-DM-2	F1, F3	F, O
Dimensional	Inside Micrometers	0.05 in to 40 in	(66 + 18L) µin	Gage Blocks	IC-DM-29	F1, F3	F, O
Dimensional	Depth Micrometers	0.05 in to 12 in	(66 + 25L) µin	Gage Blocks	IC-DM-26	F1, F3	F, O
Dimensional	Dial/ Digital Indicators	Up to 6 in	(55 + 24L) µin	Gage Blocks	IC-DM-22	F1, F3	F, O
Dimensional	Test Indicators	Up to 0.03 in	(55 + 24L) µin	Gage Blocks	IC-DM-22	F1, F3	F, O
Dimensional	Calipers	0.05 in to 40 in	(230 + 9.3L) µin	Gage Blocks Surface Plate	IC-DM-2	F1, F3	F, O
Dimensional	Height Gages	Up to 40 in	(570 + 23L) µin	Gage Blocks Surface Plate	IC-DM-3	F1, F3	F, O
Dimensional	Cylindrical Plug Gages	Up to 6 in	(6.6 + 2.6L) µin	P&W Labmaster	IC-DM-15	F1, F3	F, O
Dimensional	Plain Ring Gages	0.02 in to 14 in	(15 + 2.9L) µin	P&W Labmaster	IC-DM-8	F1, F3	F

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Dimensional	Thread Plug (Major Diameter)	Up to 6 in	21 µin	Supermicrometer	IC-DM-7	F1, F3	F
Dimensional	Thread Plug (Pitch Diameter)	Up to 6 in	86 µin	Supermicrometer	IC-DM-7	F1, F3	F
Dimensional	Steel Rules	Up to 40 in	(1 200 + 110L) µin	Linear Calibrator	IC-DM-31	F1, F3	F, O
Dimensional	Tape Measures	Up to 40 in	(1 200 + 110L) µin	Linear Calibrator	IC-DM-28	F1, F3	F, O
Dimensional	Feeler Gages	0.001 in to 0.2 in	16 µin	Supermicrometer	IC-DM-27	F1, F3	F, O
Mass, Force, and Weighing Devices	Weights (Class F)	Up to 2 kg	0.001 1 g	Mass Comparator Class 2 Std. Weights	IC-ME-1	F1, F3	F
Mass, Force, and Weighing Devices	Weights (Class F)	2 kg to 5 kg	0.045 g	Mass Comparator Class 2 Std. Weights	IC-ME-1	F1, F3	F
Mass, Force, and Weighing Devices	Weights (Class F)	5 kg to 25 kg	0.29 g	Mass Comparator Class 2 Std. Weights	IC-ME-1	F1, F3	F
Mass, Force, and Weighing Devices	Analytical Balances –	1 g to 5 000 g	0.000 56 % of Reading + 230 µg	Ultra Class Weights	IC-ME-3	F1, F3	F, O
Mass, Force, and Weighing Devices	Bench/ Floor Scales –	Up to 600 lb	0.014 % of Reading + 0.008 lb	Class F Weights	IC-ME-2	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression)	10 lbf to 500 lbf	0.005 3 % of Reading + 0.034 lbf	Load Cell Force Stand	IC-ME-11	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression)	500 lbf to 2 000 lbf	0.016 % of Reading	Load Cell Force Stand	IC-ME-11	F1, F3	F, O

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Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression)	2 000 lbf to 800 klbf	0.06 % of Reading	Load Cell Force Stand	IC-ME-11	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Tension)	10 lbf to 500 lbf	0.005 3 % of Reading + 0.034 lbf	Load Cell Force Stand	IC-ME-11	F1, F3	F, O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Tension)	500 lbf to 2 000 lbf	0.016 % of Reading	Load Cell Force Stand	IC-ME-11	F1, F3	F, O
Time and Frequency	Equipment to Output Frequency	0.01 Hz to 2 MHz	2.5 Hz/MHz + 5 µHz	8.5 Digit Multimeter	OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 Hz to 10 MHz	0.05 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	1 Hz to 40 Hz	0.05 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Time and Frequency	Equipment to Measure Frequency	40 Hz to 10 MHz	0.01 % of Reading	Multifunction Calibrator	OEM Manual	F1, F2	F, O
Time and Frequency	Oscilloscope (Time Marker) (50 Ω)	1 ns to 20 ms	2.9 µs/s	Fluke 5560A/2G	OEM Manual	F0	F, O
Time and Frequency	Oscilloscope (Rise Time)	< 300 ps	7.5 ps	Fluke 5560A/2G	OEM Manual	F0	F, O
Time and Frequency	Timers/ Stopwatches	Up to 24 hrs	0.058 s/day	Timometer	Time Base Method NIST 960-12	F1, F2	F, O
Mechanical	Torque Tools (Wrenches, Drivers, Watches, Limiters, Multipliers)	5 ozf•in to 100 ozf•in	0.9 % of Reading + 0.087 ozf•in	Torque Tester	IC-ME-5	F1, F3	F, O
Mechanical	Torque Tools (Wrenches, Drivers, Watches, Limiters, Multipliers)	5 lbf•in to 1 000 lbf•in	1.1 % of Reading + 0.15 lbf•in	Torque Tester	IC-ME-5	F1, F3	F, O

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Mechanical	Torque Tools (Wrenches, Drivers, Watches, Limiters, Multipliers)	25 lbf•ft to 250 lbf•ft	1 % of Reading + 0.01 lbf•ft	Torque Tester	IC-ME-5	F1, F3	F, O
Mechanical	Torque Tools (Wrenches, Drivers, Watches, Limiters, Multipliers)	250 lbf•ft to 600 lbf•ft	0.61 % of Reading + 0.73 lbf•ft	Torque Tester	IC-ME-5	F1, F3	F, O
Mechanical	Equipment to Measure Pneumatic Pressure	0 psi to 29 psi	0.011 % of Reading + 0.001 8 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Mechanical	Equipment to Measure Pneumatic Pressure	29 psi to 290 psi	0.005 4 % of Reading + 0.013 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Mechanical	Equipment to Measure Pneumatic Pressure	290 psi to 2 900 psi	0.005 7 % of Reading + 0.13 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Mechanical	Equipment to Measure Hydraulic Pressure	0 psi to 5 000 psi	0.083 % of Reading + 0.56 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Mechanical	Equipment to Measure Hydraulic Pressure	5 000 psi to 20 000 psi	12 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Mechanical	Equipment to Measure Hydraulic Pressure	20 000 psi to 40 000 psi	25 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Mechanical	Equipment to Measure Vacuum	-14.5 psi to 0 psi	0.002 psi	Pressure Calibrator	IC-TH-8	F1, F3	F, O
Thermodynamic	Temperature Measuring Equipment	-196 °C to 0 °C	0.045 °C	Metrology Well/ Bath/ Furnace, SPRT, Reference Thermometer, Liquid Nitrogen	IC-TH-3	F1, F3	F, O
Thermodynamic	Temperature Measuring Equipment	0 °C to 200 °C	0.035 °C	Metrology Well/ Bath/ Furnace, SPRT, Reference Thermometer, Liquid Nitrogen	IC-TH-3	F1, F3	F, O

Certificate of Accreditation: Supplement

Accredited Labs dba Industrial Calibration and Service (In-Cal)

71C Pine Road, Hudson, NH 03051
Contact Name: Liz Ward Phone: 603-883-5558

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
Thermodynamic	Temperature Measuring Equipment	200 °C to 660 °C	0.042 °C	Metrology Well/ Bath/ Furnace, SPRT, Reference Thermometer, Liquid Nitrogen	IC-TH-3	F1, F3	F, O
Thermodynamic	Temperature Measuring Equipment	660 °C to 1 000 °C	2.9 °C	Metrology Well/ Bath/ Furnace, SPRT, Reference Thermometer, Liquid Nitrogen	IC-TH-3	F1, F3	F, O
Thermodynamic	Infrared Thermometers	35 °C to 500 °C	0.38 % of Reading + 0.3 °C	Blackbody	IC-TH-16	F1, F3	F, O
Thermodynamic	Equipment to Measure Humidity	10 % RH to 95 % RH	0.53 % RH	Thunder Scientific 2500	IC-TH-5	F1, F3	F, O
Thermodynamic	Oven, Furnace, Freezer (Temperature Uniformity Survey (TUS))	-200 °C to 1 300 °C	2.4 °C	Thermocouple Data Logger, Thermocouple Sensors	AMS 2750 IC-TH-17	F1, F2, F3	O
Thermodynamic	Oven, Furnace, Freezer (System Accuracy Test (SAT))	-200 °C to 1 300 °C	2.4 °C	Thermocouple Data Logger, Thermocouple Sensors	AMS 2750 IC-TH-17	F1, F2, F3	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 L represents length in inches or millimeters as appropriate to the uncertainty statement.