



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ACS Calibration LLC
3124 W. Main St Suite 14, Dothan, AL

*(Hereinafter called the Organization) and hereby declares that Organization is accredited
in accordance with the recognized International Standard:*

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the
operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

**Chemical, Dimensional, Electrical, Mechanical,
Mass, Force & Weighing, Thermodynamic and Time & Frequency Calibration**
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this
certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the
Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

February 22, 2018

Issue Date:

July 31, 2024

Expiration Date:

November 30, 2026

Accreditation No.:

98908

Certificate No.:

L24-586

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

*The validity of this certificate is maintained through ongoing assessments based on a
continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjllabs.com*



Certificate of Accreditation: Supplement

ACS Calibration LLC

3124 W. Main St Suite 14, Dothan, AL 36305
Contact Name: Mr. Dustin Pybus Phone: 334-792-0113

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

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Calipers ^{FO}	0.05 in to 40 in	(33 + 5.7L) μin	Gage Blocks and Surface Plate	WI-05
Height Gages ^{FO}	0.05 in to 20 in	(47 + 4.3L) μin	Gage Blocks	WI-07
Micrometer ^{FO}	0.05 in to 6 in	(42 + 5.2L) μin		WI-04
Indicators ^{FO}	0.05 in to 4 in	(1.3 + 30L) μin		WI-06
Optical Comparators X and Y Axis Linearity ^{FO}	0.1 mm to 100 mm	0.003 9 mm	Gage Blocks and Glass Scale	WI-23
Rulers ^{FO}	Up to 40 in	0.006 6 in	Gage Blocks, Caliper	WI-28
Cylindrical Plugs/Pins ^{FO}	Up to 1 in	66 μin	Gage Blocks, Micrometer	
Feeler and Thickness Gages ^{FO}	Up to 0.5 in	66 μin		

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ($\pm$)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Source DC Current ^{FO}	0.01 μ A to 100 μ A	25 nA + 0.061 % of reading	Multimeter	WI-17
	100 μ A to 1 mA	0.05 μ A + 0.059 % of reading		
	1 mA to 10 mA	2 μ A + 0.061 % of reading		
	10 mA to 100 mA	5 μ A + 0.06 % of reading		
	100 mA to 1 A	0.2 mA + 0.062 % of reading		
	1 A to 3 A	0.6 mA + 0.12 % of reading		
	3 A to 10 A	0.8 mA + 0.18 % of reading		
Equipment to Measure DC Current ^{FO}	2 μ A to 202 μ A	0.076 μ A	Calibrator	WI-12
	0.2 mA to 2.02 mA	0.000 31 mA		
	2.02 mA to 20.2 mA	0.001 9 mA		
	20.2 mA to 202 mA	0.023 mA		
	0.202 A to 2.02 A	0.000 34 A		
	2 A to 30 A	0.016 A		



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Electrical

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Equipment to Source Resistance ^{FO}	0.1 Ω to 10 Ω	3 m Ω + 0.13 % of reading	Multimeter	WI-18
	10 Ω to 100 Ω	4 m Ω + 0.012 % of reading		
	100 Ω to 1 k Ω	10 m Ω + 0.012 % of reading		
	1 k Ω to 10 k Ω	0.1 Ω + 0.12 % of reading		
	10 k Ω to 100 k Ω	1 Ω + 0.012 % of reading		
	100 k Ω to 1 M Ω	10 Ω + 0.012 % of reading		
	1 M Ω to 10 M Ω	0.1 k Ω + 0.047 % of reading		
	10 M Ω to 100 M Ω	10 k Ω + 0.95 % of reading		
Equipment to Measure Resistance ^{FO}	0.1 Ω to 1 Ω	0.006 Ω	Calibrator	WI-12
	1 Ω to 10 Ω	0.007 5 Ω		
	10 Ω to 100 Ω	0.014 Ω		
	0.1 k Ω to 1 k Ω	0.000 11 k Ω		
	1 k Ω to 10 k Ω	0.001 1 k Ω		
	10 k Ω to 100 k Ω	0.009 7 k Ω		
	0.1 M Ω to 1 M Ω	0.000 2 M Ω		
	1 M Ω to 10 M Ω	0.005 4 M Ω		
	10 M Ω to 100 M Ω	0.67 M Ω		
Equipment to Source DC Voltage ^{FO}	10 mV to 100 mV	0.005 1 % of reading + 3.5 μ V	Multimeter	WI-19
	0.1 V to 1 V	0.003 1 % of reading + 7 μ V		
	1 V to 10 V	0.002 9 % of reading + 0.05 mV		
	10 V to 100 V	0.004 6 % of reading + 0.6 mV		
	100 V to 1 000 V	0.005 4 % of reading + 10 mV		
Equipment to Measure DC Voltage ^{FO}	0.2 mV to 202 mV	0.009 5 mV	Calibrator	WI-12
	0.2 V to 2.02 V	0.000 077 V		
	2 V to 20.2 V	0.000 80 V		
	20 V to 200 V	0.009 6 V		
	200 V to 1 000 V	0.052 V		
	10 mF to 100 mF	0.2 mF + 4.8 % of reading		



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Equipment to Source Capacitance ^{FO}	0.1 nF to 1 nF	25 nF + 2.7 % of reading	Multimeter	WI-11
	1 nF to 10 nF	0.05 nF + 1.3 % of reading		
	10 nF to 100 nF	0.5 nF + 1.2 % of reading		
	0.1 µF to 1 µF	5 nF + 1.2 % of reading		
	1 µF to 10 µF	0.05 µF + 1.2 % of reading		
	10 µF to 100 µF	0.5 µF + 1.2 % of reading		
	100 µF to 1 mF	5 µF + 1.2 % of reading		
	1 mF to 10 mF	0.05 mF + 1.3 % reading		
Equipment to Measure Capacitance ^{FO}	10 nF	0.47% of reading	Calibrator	WI-12
	20 nF	0.47% of reading		
	50 nF	0.47% of reading		
	100 nF	0.47% of reading		
	1 µF	0.47% of reading		
	10 µF	0.47% of reading		
Equipment to Source DC Voltage ^{FO}	1 µV to 100 mV	3.5 µV + 0.005 1 % of reading	Multimeter	WI-19
	100 mV to 1 V	7 µV + 0.003 % of reading		
	1 V to 10 V	0.05 mV + 0.002 8 % of reading		
	10 V to 100 V	0.6 mV + 0.004 6 % of reading		
	100 V to 1 000 V	10 mV + 0.005 % of reading		
	1 kV to 6 kV	1.2 % of reading	High Voltage Probe with Multimeter	WI-33
Equipment to Source AC Current (at the listed frequencies) ^{FO}			Multimeter	WI-17
5 Hz to 10 Hz	0.1 µA to 100 µA	0.4 µA + 0.36 % of reading		
10 Hz to 5 kHz	0.1 µA to 100 µA	0.4 µA + 0.12 % of reading		
5 kHz to 10 kHz	0.1 µA to 100 µA	0.25 µA + 0.24 % of reading		
Equipment to Source AC Current (at the listed frequencies) ^{FO}				
5 Hz to 10 Hz	100 µA to 1 mA	0.4 µA + 0.36 % of reading		
10 Hz to 5 kHz	100 µA to 1 mA	0.4 µA + 0.12 % of reading		
5 kHz to 10 kHz	100 µA to 1 mA	2.5 µA + 0.24 % of reading		
Equipment to Source AC Current (at the listed frequencies) ^{FO}				
5 Hz to 10 Hz	1 mA to 10 mA	4 µA + 0.36 % of reading		
10 Hz to 5 kHz	1 mA to 10 mA	4 µA + 0.12 % of reading		
5 kHz to 10 kHz	1 mA to 10 mA	23 µA + 0.24 % of reading		



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Equipment to Source AC Current (at the listed frequencies) ^{FO}			Multimeter	WI-17
5 Hz to 10 Hz	10 mA to 100 mA	0.04 mA + 0.36 % of reading		
10 Hz to 5 kHz	10 mA to 100 mA	0.04 mA + 0.12 % of reading		
5 kHz to 10 kHz	10 mA to 100 mA	0.25 mA + 0.24 % of reading		
Equipment to Source AC Current (at the listed frequencies) ^{FO}				
10 Hz to 5 kHz	100 mA to 1 A	0.4 mA + 0.12 % of reading		
5 kHz to 10 kHz	100 mA to 1 A	7 mA + 0.42 % of reading		
Equipment to Source AC Current (at the listed frequencies) ^{FO}				
10 Hz to 44 Hz	20 µA to 202 µA	0.98 µA		
45 Hz to 999 Hz	20 µA to 202 µA	0.58 µA		
1 kHz to 10 kHz	20 µA to 202 µA	4.1 µA		
Equipment to Measure AC Current (at the listed frequencies) ^{FO}			Calibrator	
10 Hz to 44 Hz	0.2 mA to 2.02 mA	0.006 5 mA		
45 Hz to 999 Hz	0.2 mA to 2.02 mA	0.002 mA		
1 kHz to 10 kHz	0.2 mA to 2.02 mA	0.021 mA		
Equipment to Measure AC Current 2 mA to 20.2 mA (at the listed frequencies) ^{FO}				
10 Hz to 44 Hz	2 mA to 20.2 mA	0.07 mA		
45 Hz to 999 Hz	2 mA to 20.2 mA	0.02 mA		
1 kHz to 10 kHz	2 mA to 20.2 mA	0.14 mA		
Equipment to Measure AC Current (at the listed frequencies) ^{FO}				
10 Hz to 44 Hz	20.2 mA to 202 mA	0.65 mA		
45 Hz to 999 Hz	20.2 mA to 202 mA	0.2 mA		
1 kHz to 10 kHz	20.2 mA to 202 mA	1.4 mA		
Equipment to Measure AC Current (at the listed frequencies) ^{FO}				
10 Hz to 44 Hz	10 Hz to 44 Hz	10 Hz to 44 Hz		
45 Hz to 999 Hz	45 Hz to 999 Hz	45 Hz to 999 Hz		
1 kHz to 5 kHz	1 kHz to 5 kHz	1 kHz to 5 kHz		
Equipment to Measure AC Current (at the listed frequencies) ^{FO}				
30 Hz to 44 Hz	30 Hz to 44 Hz	30 Hz to 44 Hz		
45 Hz to 99 Hz	45 Hz to 99 Hz	45 Hz to 99 Hz		
100 Hz to 10 kHz	100 Hz to 10 kHz	100 Hz to 10 kHz		



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Equipment to Source AC Current (at the listed frequencies) ^{FO}			Multimeter	WI-19
10 Hz to 5 kHz	3 A to 10 A	4 mA + 0.18 % of reading		
Equipment to Source AC Voltage (at the listed frequencies) ^{FO}				
5 Hz to 10 Hz	0.1 mV to 100 mV	0.04 mV + 0.42 % of reading		
10 Hz to 20 kHz	0.1 mV to 100 mV	0.04 mV + 0.07 % of reading		
20 kHz to 50 kHz	0.1 mV to 100 mV	0.05 mV + 0.14 % of reading		
50 kHz to 100 kHz	0.1 mV to 100 mV	0.08 mV + 0.71 % of reading		
Equipment to Source AC Voltage (at the listed frequencies) ^{FO}				
5 Hz to 10 Hz	0.1 V to 1 V	0.3 mV + 0.42 % of reading		
10 Hz to 20 kHz	0.1 V to 1 V	0.3 mV + 0.071 % of reading		
20 kHz to 50 kHz	0.1 V to 1 V	0.5 mV + 0.14 % of reading		
50 kHz to 100 kHz	0.1 V to 1 V	0.8 mV + 0.71 % of reading		
Equipment to Source AC Voltage (at the listed frequencies) ^{FO}				
5 Hz to 10 Hz	1 V to 10 V	3 mV + 0.42 % of reading		
10 Hz to 20 kHz	1 V to 10 V	3 mV + 0.071 % of reading		
20 kHz to 50 kHz	1 V to 10 V	5 mV + 0.14 % of reading		
50 kHz to 100 kHz	1 V to 10 V	8 mV + 0.71 % of reading		
Equipment to Source AC Voltage (at the listed frequencies) ^{FO}				
10 Hz to 20 kHz	10 V to 100 V	0.03 V + 0.071 % of reading		
20 kHz to 50 kHz	10 V to 100 V	0.05 V + 0.14 % of reading		
50 kHz to 100 kHz	10 V to 100 V	0.08 V + 0.71 % of reading		
Equipment to Source AC Voltage (at the listed frequencies) ^{FO}				
10 Hz to 20 kHz	10 Hz to 20 kHz	0.3 V + 0.071 % of reading		
20 kHz to 50 kHz	20 kHz to 50 kHz	0.5 V + 0.14 % of reading		
50 kHz to 100 kHz	50 kHz to 100 kHz	0.8 V + 0.71 % of reading		
Equipment to Measure AC Voltage (at the listed frequencies) ^{FO}			Calibrator	WI-12
10 Hz to 45 Hz	10 Hz to 45 Hz	0.68 mV		
45 Hz to 1 000 Hz	45 Hz to 1 000 Hz	0.14 mV		
1 kHz to 20 kHz	1 kHz to 20 kHz	0.3 mV		
20 kHz to 100 kHz	20 kHz to 100 kHz	2.8 mV		
100 kHz to 500 kHz	100 kHz to 500 kHz	3.5 mV		



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Equipment to Measure AC Voltage: (at the listed frequencies) ^{FO}			Calibrator	WI-12
10 Hz to 45 Hz	0.2 V to 2.02 V	0.006 5 V		
45 Hz to 1 000 Hz	0.2 V to 2.02 V	0.001 2 V		
1 kHz to 20 kHz	0.2 V to 2.02 V	0.002 3 V		
20 kHz to 100 kHz	0.2 V to 2.02 V	0.011 V		
100 kHz to 500 kHz	0.2 V to 2.02 V	0.032 V		
Equipment to Measure AC Voltage (at the listed frequencies) ^{FO}				
10 Hz to 45 Hz	2.02 V to 20.2 V	0.065 V		
45 Hz to 1 000 Hz	2.02 V to 20.2 V	0.011 V		
1 kHz to 20 kHz	2.02 V to 20.2 V	0.02 V		
20 kHz to 100 kHz	2.02 V to 20.2 V	0.12 V		
Equipment to Measure AC Voltage (at the listed frequencies) ^{FO}				
30 Hz to 45 Hz	20.2 V to 202 V	0.2 V		
45 Hz to 1 000 Hz	20.2 V to 202 V	0.16 V		
1 kHz to 20 kHz	20.2 V to 202 V	0.34 V		
Equipment to Measure AC Voltage (at the listed frequencies) ^{FO}				
30 Hz to 45 Hz	202 V to 1 020 V	1.1 V		
45 Hz to 1 000 Hz	202 V to 1 020 V	0.71 V		
1 kHz to 10 kHz	202 V to 1 020 V	2.7 V		
60 Hz	1 020 V to 6 kV	1.2 % of reading	High Voltage Probe with Multimeter	WI-33
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K ^{FO}	-200 °C to -100 °C	0.59 °C	Calibrator	WI-21
	-100 °C to 120 °C	0.49 °C		
	120 °C to 1 370 °C	0.54 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J ^{FO}	-100 °C to 150 °C	0.47 °C		
	150 °C to 1 200 °C	0.39 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T ^{FO}	-150 °C to 400 °C	0.39 °C		



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

Mass, Force, and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ($\pm$)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Analytical Balances ^{FO}	2 g to 300 g	0.000 12% of Reading	Class 1 Weights	WI-02
	300.001 g to 500 g	0.000 17% of Reading		
Precision Balances ^{FO}	500.001 g to 3 000 g	0.012% of Reading	Class F Weights	WI-02
Bench Scales ^{FO}	0.01 lbs. to 10 lbs.	0.006 2% of Reading		
	10.000 1 lbs. to 17 lbs.	0.005 7% of Reading		
	17.001 lbs. to 750 lbs.	0.018 % of Reading		
Force – Tension and Compression ^{FO}	Up to 100 lbf	0.025% of reading	Class F Weights	WI-29
Pipettes and Volume Delivering Instruments ^{FO}	0.5 μ L to 10 μ L	0.054 μ L	Pressure Gauges Pressure Gauges	WI-01 WI-01
	10 μ L to 20 μ L	0.057 μ L		
	20 μ L to 50 μ L	0.062 μ L		
	50 μ L to 100 μ L	0.086 μ L		
	100 μ L to 200 μ L	0.17 μ L		
	200 μ L to 500 μ L	0.42 μ L		
	500 μ L to 1 000 μ L	0.61 μ L		
	1 000 μ L to 2 500 μ L	2.4 μ L		
	2 500 μ L to 5 000 μ L	2.8 μ L		
	5 000 μ L to 10 000 μ L	6.4 μ L		
Pressure Gauges ^{FO}	0.35 psi to 0.35 psi	0.000 43 psi	Pressure Gauges	WI-01
	-14 psi to 30 psi	0.018 psi		
	30 psi to 100 psi	0.062 psi		
	100 psi to 500 psi	0.31 psi		
	500 psi to 2 000 psi	1.2 psi		
	2 000 psi to 5 000 psi	3.0 psi		
	2 000 psi to 10 000 psi	0.15 % of reading	Fluke Reference Pressure Gauge	
Torque Wrenches ^{FO}	10 in•lb to 400 in•lb	0.66 % of reading	Torque Tester	WI-22
	33 ft•lb to 250 ft•lb	1.2 % of reading		
Torque Transducers ^{FO}	1 lbf in to 100 lbf in	0.025% + 0.004 lbf in	Torque Arm 5" and Weights	WI-31



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Time & Frequency

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Equipment to Source Frequency ^{FO}	3 Hz to 5 Hz	0.12 % of reading	Multimeter	WI-16
	5.1 Hz to 10 Hz	0.06 % of reading		
	10.1 Hz to 40 Hz	0.035 % of reading		
	40.1 Hz to 300 kHz	0.012 % of reading		
	300.1 kHz to 1 MHz	0.012 % of reading		
Equipment to Measure Frequency ^{FO}	1 Hz to 10 MHz	0.003 5 % of reading	Calibrator	WI-12
Equipment to Source Rotational Speed, Noncontact ^{FO}	60 rpm to 600 rpm	0.54 rpm	Tachometer	WI-24
	600.1 rpm to 6 000 rpm	5.1 rpm		
	6 001 rpm to 18 000 rpm	17 rpm		
Tachometer, Rotational Speed NonContact-Measure ^{FO}	60 rpm to 1 000 rpm	0.19 rpm	Calibrator	WI-25
	1 001 rpm to 9 900 rpm	1.2 rpm		
	9 901 rpm to 99 900 rpm	2.3 rpm		
Timers and Stopwatches ^{FO}	Up to 10 800 s	0.062 s	Agilent 53131A-010	WI-26
	10 801 to 86 400 s	0.22 s		

Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ($\pm$)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to Measure Temperature ^{FO}	-196 °C to 0 °C	0.049 °C	Thermometer with Dry Well	WI-03
	0.01°C to 200 °C	0.11 °C		
	200.01 °C to 420 °C	0.17 °C		
Equipment to Source Temperature ^{FO}	-30.01 °C to 0 °C	0.049 °C	Thermometer	WI-03
	0.01°C to 200 °C	0.011 °C		
	200.01 °C to 420 °C	0.17 °C		
Infrared Thermometers ^{FO}	35 °C to 100 °C	1.1 °C	Infrared Calibrator	WI-30
	100.1 °C to 200 °C	2.1 °C		
	200.1 °C to 500 °C	3.4 °C		
Equipment to Measure Humidity ^{FO}	30 % RH to 75 % RH	1.7% RH	Humidity Transmitter	WI-13



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Chemical

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pH Meters ^{FO}	4 pH	0.028 pH	Certified pH Reference Material, Reference Thermometer, Volt/mA Calibrator	WI-27
	7 pH	0.028 pH		
	10 pH	0.028 pH		
Conductivity Meters ^{FO}	100 μ S/cm	2.6 μ S/cm	Certified Conductivity Buffer Reference Material with Thermometer	WI-32
	100 μ S/cm to 1413 μ S/cm	7.5 μ S/cm		
	1414 μ S/cm to 1 mS/cm	63 μ S/cm		
	1.01 mS/cm to 10 mS/cm	520 μ S/cm		

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.
4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.
5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location