SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

STANDARD CALIBRATIONS INC

www.standardcal.com

Contact Name Cody DeJong **Contact Phone** + 757-549-6534

Accredited to ISO/IEC 17025:2017 *Effective Date December 23, 2020*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
Dimensional			
Gage Blocks	Up to 13 in	16 µin	P & W LabMaster, Gage Blocks, Mechanical Comparison
Length	Up to 59 in	72 µin	Gage Blocks, 717 Gauge Amplifier
Thread Plugs -Major Diameter	Up to Φ2 in	47 µin	P & W Super Micrometer, Gage Blocks
Thread Plugs - Pitch Diameter	Up to Φ2 in	48 µin	P & W Super Micrometer, Gage Blocks, Thread Wires
Thread Rings -Minor Diameter	Up to Φ4 in	63 µin	P & W LabMaster, Rings
Thread Rings - Pitch Diameter	Up to Φ4 in	53 µin	P & W LabMaster, Rings
Plain Rings	Up to Φ8 in	43 µin	P & W LabMaster, Rings
Pin & Plain Plug Gages	Up to Φ0.5 in	43 µin	P & W LabMaster, Gage Blocks
Inside Micrometers	Up to 40 in	38 µin	Gage Blocks
Outside Micrometers	Up to 60 in	56 µin	Gage Blocks
Depth Micrometers	Up to 12 in	12 µin	Gage Blocks
Calipers	Up to 40 in	38 µin	Gage Blocks
Dial Indicators	Up to 3 in	43 µin	P & W Super Micrometer
Height Gages	Up to 8 in Up to 40 in	8 µin 33 µin	Gage Blocks, 717 Gauge Amplifier
Mechanical			
Torque Wrenches & Torque Cells[5]	5 in·ozf to 50 in·ozf 50 in·ozf to 200 in·ozf 200 in·ozf to 50 in·lbf 50 in·lbf to 400 in·lbf	0.15 in·ozf 0.58 in·ozf 0.13 in·lbf 1.1 in·lbf	Class F weights, Arms, CDI Torque Calibrator Torque Cell

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.*

*** Temporary location for dimensional calibrations*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
Torque Wrenches & Torque Cells[6] (continued)	400 in·lbf to 1000 in·lbf 1000 in·lbf to 250 ft·lbf 250 ft·lbf to 600 ft·lbf 600 ft·lbf to 1000 ft·lbf 1000 ft·lbf to 2000 ft·lbf	2.9 in·lbf 0.73 ft·lbf 1.8 ft·lbf 2.9 ft·lbf 5.9 ft·lbf	Class F weights, Arms, CDI Torque Calibrator Torque Cell
Pressure Measure and Generate	-15 psi to 3000 psi	0.36 psi	PM500-A120K, PM500-G200K, PM500-G700K, PM500-BG100K, PM500-BG2M, PM500-BG7M, PM600-A20M with Fluke 6270A
	1 psi to 15,000 psi	1.3 psi	Fluke Piston Gauge PG-7202/7601
	15000 psi to 30000 psi	18 psi	Omegadyne PX01S1-30KGI
Vacuum Measure and Generate[5]	0 inHg to 29.8 inHg	0.0036 inHg	PM500-BG2M, PM500-BG7M with Fluke 6270A
Tension/ Compression Dynamometers / Load Cells[5]	1 lbf to 5 lbf 5 lbf to 20 lbf 20 lbf to 50 lbf 50 lbf to 300 lbf	7.5×10^{-5} + 0.00053 lbf 9.3E-05 + 0.00043 lbf 1.9E-03 + 0.03 lbf 8.0E-06 + 0.06 lbf	Class 6 Weights
	300 lbf to 60,000 lbf	3.3E-04 + 3.0 lbf	Proving Rings
Thermal			
Temperature Measure[4]	-40 °F to 1220 °F	0.0092 °F	Direct with Fluke 5699 SPRT and Fluke 8508A
Temperature Generate[3]	-40 °F to 1220 °F	0.0092 °F	Indirect with Fluke 5699 SPRT and Fluke 8508A
Infrared Temperature Measure[4,5]	122 °F to 932 °F	0.86 °F	Fluke 9132
Humidity[5]	12 %RH to 95 %RH (45 °F to 122 °F)	0.63 %	Thunder Scientific 1200
Electrical – DC/LF			
DC Voltage – Generate[3,5]	0 mV to 199.99 mV 0.2 V to 1.9999 V 2 V to 19.999 V 20 V to 199.99 V 200 V to 1050 V	1.3 µV 8.2 µV 83 µV 1.3 mV 7.0 mV	Fluke 8508A in parallel with a source
DC Voltage – Measure[4,5]	0 mV to 199.99 mV 0.2 V to 1.9999 V 2 V to 19.999 V 20 V to 199.99 V 200 V to 1050 V	1.3 µV 8.3 µV 82 µV 1.3 mV 7.0 mV	Fluke 8508A
DC Current – Generate[3,5]	0 to 199.99 µA 0.2 mA to 1.9999 mA 2 mA to 19.999 mA 20 mA to 199.99 mA	3.3 nA 33 nA 0.36 µA 11 µA	Fluke 8508A in Series with a source

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
	0.2 A to 1.9999 A 2 A to 19.999 A	0.4 mA 9.3 mA	
DC Current – Measure[4,5]	0 to 199.99 µA 0.2 mA to 1.9999 mA 2 mA to 19.999 mA 20 mA to 199.99 mA 0.2 A to 1.9999 A 2 A to 19.999 A	3.1 nA 32 nA 0.36 µA 11 µA 0.43 mA 9.4 mA	Fluke 8508A
DC Resistance – Generate[3,5]	0 Ω to 10.9999 Ω 11 Ω to 32.9999 Ω 33 Ω to 109.9999 Ω 110 Ω to 329.9999 Ω 330 Ω to 1.099999 kΩ 1.1 kΩ to 3.299999 kΩ 3.3 kΩ to 10.99999 kΩ 11 kΩ to 32.99999 kΩ 33 kΩ to 109.9999 kΩ 110 kΩ to 329.9999 kΩ 330 kΩ to 1.099999 MΩ 1.1 MΩ to 3.299999 MΩ 3.3 MΩ to 10.99999 MΩ 11 MΩ to 32.99999 MΩ 33 MΩ to 109.9999 MΩ 110 MΩ to 329.9999 MΩ 330 MΩ to 1100 MΩ	12 mΩ 18 mΩ 21 mΩ 26mΩ 55 mΩ 330 mΩ 450 mΩ 2.1 Ω 4.5 Ω 23 Ω 49 Ω 420 Ω 1.8 kΩ 12 kΩ 13 kΩ 1.2 MΩ 2.6 MΩ	Fluke 5520A 4-Wire Compensation and 4-Wire Measure
DC Resistance Measure[4,5]	0 Ω to 1.9999 Ω 2 Ω to 19.999 Ω 20 Ω to 199.99 Ω 200 Ω to 1.9999 kΩ 2 kΩ to 19.999 kΩ 20 kΩ to 199.99 kΩ 200 kΩ to 1.9999 MΩ 2 MΩ to 19.999 MΩ 20 MΩ to 199.99 MΩ 200 MΩ to 1.9999 GΩ	40 µΩ 210 µΩ 1.7 mΩ 17 mΩ 170 mΩ 1.7 Ω 19 Ω 430 Ω 30 kΩ 2 MΩ	Fluke 8508A 4–wire Normal Mode 2 – wire Normal Mode 2 – wire Normal Mode
Electrical Temperature Simulation - Thermocouples[5] Type B Type E 	 600 °C to 800 °C 800 °C to 1000 °C 1000 °C to 1550 °C 1550 °C to 1850 °C -250 °C to -100 °C -100 °C to -25 °C -25 °C to 350 °C 350 °C to 650 °C 650 °C to 1000 °C	 0.5 °C 0.4 °C 0.35 °C 0.39 °C 0.59 °C 0.19 °C 0.17 °C 0.19 °C 0.25 °C	Fluke 5520A, HP 3458A

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
Electrical Temperature Simulation - Thermocouples[5] (continued)			Fluke 5520A, HP 3458A
Type J	-210 °C to -100 °C -100 °C to -30 °C -30 °C to 150 °C 150 °C to 760 °C 760 °C to 1200 °C	0.32 °C 0.19 °C 0.17 °C 0.2 °C 0.27 °C	
Type K	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 1000 °C 1000 °C to 1372 °C	0.38 °C 0.21 °C 0.19 °C 0.3 °C 0.46 °C	
Type N	-200 °C to -100 °C -100 °C to -25 °C -25 °C to 120 °C 120 °C to 410 °C 410 °C to 1300 °C	0.46 °C 0.26 °C 0.23 °C 0.21 °C 0.32 °C	
Type R	0 °C to 250 °C 250 °C to 400 °C 400 °C to 1000 °C 1000 °C to 1767 °C	0.66 °C 0.41 °C 0.39 °C 0.47 °C	
Type S	0 °C to 250 °C 250 °C to 1000 °C 1000 °C to 1400 °C 1400 °C to 1767 °C	0.55 °C 0.42 °C 0.43 °C 0.53 °C	
Type T	-250 °C to -150 °C -150 °C to 0 °C 0 °C to 120 °C 120 °C to 400 °C	0.73 °C 0.28 °C 0.19 °C 0.17 °C	
Type U	-200 °C to 0 °C 0 °C to 600 0 °C	0.65 °C 0.32 °C	
AC Voltage – Generate[3]	Up to 2.2 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) 2.2 mV to 7 mV (10 Hz to 20 Hz)	 9.9 µV 11 µV 9.6 µV 11 µV 38 µV 67 µV 220 µV 74 µV	Fluke 5790A in parallel with source

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Voltage – Generate[3] (continued)	(20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 7 mV to 22 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 22 mV to 70 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 70 mV to 220 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 220 mV to 700 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 700 mV to 2.2 V (10 Hz to 20 Hz) (20 Hz to 40 Hz)	4.1 µV 3.4 µV 5.4 µV 7.9 µV 15 µV 28 µV 56 µV 8.8 µV 7.8 µV 6.7 µV 7.5 µV 18 µV 33 µV 39 µV 94 µV 180 µV 11 µV 7.2 µV 23 µV 110 µV 42 µV 140 µV 170 µV 55 µV 22 µV 13 µV 18 µV 40 µV 63 µV 97 µV 630 µV 150 µV 230 µV 28 µV 39 µV 59 µV 130 µV 220 µV 680 µV 0.6 mV 0.1 mV	Fluke 5790A in parallel with source

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Voltage – Generate[3] (continued)	(40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 2.2 V to 7 V (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 7 V to 22 V (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 22 V to 70 V (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 70 V to 220 V (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 220 V to 700 V (40 Hz to 20 kHz) 700 V to 1000 V (40 Hz to 20 kHz)	0.1 mV 0.1 mV 0.2 mV 2.0 mV 4.1 mV 49 mV 1.4 mV 0.5 mV 0.2 mV 0.3 mV 0.6 mV 4.6 mV 1.6 mV 0.6 mV 1.1 mV 1.9 mV 2.3 mV 4.0 mV 6.5 mV 7.2 mV 16 mV 23 mV 22 mV 0.4 V	Fluke 5790A in parallel with source
AC Voltage – Measure[4]	Up to 2.2 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) 2.2 mV to 7 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz)	 9.9 µV 11 µV 9.4 µV 11 µV 33 µV 67 µV 220 µV 74 µV 4.1 µV 3.4 µV 5.4 µV 7.9 µV	Fluke 5790A

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Voltage – Measure[4] (continued)	(100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 7 mV to 22 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 22 mV to 70 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 70 mV to 220 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 220 mV to 700 mV (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz) (300 kHz to 500 kHz) (500 kHz to 1 MHz) 700 mV to 2.2 V (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) (100 kHz to 300 kHz)	15 µV 28 µV 55 µV 8.2 µV 5.9 µV 4.2 µV 7.5 µV 18 µV 33 µV 39 µV 98 µV 180 µV 11 µV 6.3 µV 13 µV 28 µV 41 µV 140 µV 170 µV 50 µV 21 µV 11 µV 18 µV 40 µV 63 µV 97 µV 630 µV 150 µV 55 µV 25 µV 38 µV 58 µV 130 µV 220 µV 680 µV 0.6 mV 0.1 mV 0.1 mV 0.1 mV 0.2 mV 2.0 mV	Fluke 5790A

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Voltage – Measure[4] (continued)	(300 kHz to 500 kHz) (500 kHz to 1 MHz) 2.2 V to 7 V (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 7 V to 22 V (10 Hz to 20 Hz) (20 Hz to 40 Hz) (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 22 V to 70 V (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 70 V to 220 V (40 Hz to 20 kHz) (20 kHz to 50 kHz) (50 kHz to 100 kHz) 220 V to 700 V (40 Hz to 20 kHz) 700 V to 1000 V (40 Hz to 20 kHz)	4.1 mV 49 mV 1.4 mV 0.5 mV 0.2 mV 0.3 mV 0.6 mV 4.6 mV 1.6 mV 0.6 mV 1.1 mV 1.9 mV 2.2 mV 4.0 mV 6.5 mV 7.2 mV 16 mV 23 mV 22 mV 48 mV	Fluke 5790A
Capacitance – Generate[3,6]	0.19 nF to 0.3999 nF 0.4 nF to 1.0999 nF 1.1 nF to 3.2999 nF 3.3 nF to 10.9999 nF 11 nF to 32.9999 nF 33 nF to 109.999 nF 110 nF to 329.999 nF 0.33 µF to 1.09999 µF 1.1 µF to 3.29999 µF 3.3 µF to 10.9999 µF 11 µF to 32.9999 µF 33 µF to 109.999 µF 110 µF to 329.999 µF 0.33 mF to 1.09999 mF 1.1 mF to 3.2999 mF 3.3 mF to 10.9999 mF 11 mF to 32.9999 mF 33 mF to 110 mF	14 pF 17 pF 29 pF 41 pF 0.2 nF 0.41 nF 1.2 nF 4.1 nF 12 nF 41 nF 0.17 µF 0.64 µF 1.9 µF 6.4 µF 19 µF 65 µF 0.29 mF 150 mF	5520A/SC600
AC Current – Measure[4]	Up to 199.99 µA		Fluke 8508A

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Current – Measure[4] (continued)	(1 Hz to 10 Hz) (10 Hz to 10 kHz) (10 kHz to 30 kHz) (30 kHz to 100 kHz) 0.2 mA to 1.9999 mA (1 Hz to 10 Hz) (10 Hz to 10 kHz) (10 kHz to 30 kHz) (30 kHz to 100 kHz) 2 mA to 19.999 mA (10 Hz to 10 kHz) (10 kHz to 30 kHz) (30 kHz to 100 kHz) 20 mA to 199.99 mA (1 Hz to 10 Hz) (10 Hz to 10 kHz) (10 kHz to 30 kHz) 0.2 A to 1.9999 A (10 Hz to 2 kHz) (2 kHz to 10 kHz) (10 kHz to 30 kHz) 2 A to 19.999 A (10 Hz to 2 kHz) (2 kHz to 10 kHz)	34 nA 130 nA 180 nA 1.1 µA 1.0 µA 0.9 µA 1.8 µA 9.0 µA 9.0 µA 18 µA 90 µA 92 µA 87 µA 160 µA 1.6 mA 6.3 mA 6.8 mA 21 mA 58 mA	Fluke 8508A
AC Current – Generate[3]	Up to 199.99 µA (1 Hz to 10 Hz) (10 Hz to 10 kHz) (10 kHz to 30 kHz) (30 kHz to 100 kHz) 0.2 mA to 1.9999 mA (1 Hz to 10 Hz) (10 Hz to 10 kHz) (10 kHz to 30 kHz) (30 kHz to 100 kHz) 2 mA to 19.999 mA (10 Hz to 10 kHz) (10 kHz to 30 kHz) (30 kHz to 100 kHz) 20 mA to 199.99 mA (1 Hz to 10 Hz) (10 Hz to 10 kHz) (10 kHz to 30 kHz)	 34 nA 130 nA 180 nA 1.1 µA 1.0 µA 0.9 µA 1.8 µA 9.0 µA 9.0 µA 18 µA 90 µA 92 µA 87 µA 160 µA	Fluke 8508A in parallel with source

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION PROCEDURE AND/OR STANDARD EQUIPMENT USED
AC Current – Generate[3] (continued)	0.2 A to 1.9999 A (10 Hz to 2 kHz) (2 kHz to 10 kHz) (10 kHz to 30 kHz) 2 A to 19.999 A (10 Hz to 2 kHz) (2 kHz to 10 kHz)	 1.6 mA 6.3 mA 6.8 mA 21 mA 58 mA	Fluke 8508A in parallel with source
Time and Frequency			
Frequency – Generate[3] (Sine wave into 50 Ω)	1 Hz to 100 kHz 100 kHz to 10 MHz 10 MHz to 500 MHz 500 MHz to 2.1 GHz	1.5 mHz 0.18 Hz 5.8 Hz 1.2 Hz	HP 3325B Signal Generator, HP 8642B- Synced to GPS
Frequency – Measure[4] (Sine wave into 50 Ω)	10 Hz to 100 MHz 100 MHz to 500 MHz 500 MHz to 1.3 GHz 1.3 GHz to 26 GHz	0.58 Hz 0.58 Hz 0.58 Hz 0.58 Hz	HP 5334A Universal Counter- Synced to GPS
Amplitude Modulation – Measure[4] (5 % to 99 %)	250 kHz to 10 MHz AM: 50 Hz to 10 kHz AM: 20 Hz to 10 kHz	 0.058 % 0.058 %	HP 8902A- Synced to GPS
	10 MHz to 1.3 GHz AM: 50 Hz to 10 kHz AM: 20 Hz to 10 kHz	 0.067 % 0.067 %	
Frequency Modulation – Measure[4] (Dev: ≤40 kHz)	250 kHz to 10 MHz FM: 50 Hz to 10 kHz	 5.8 Hz	HP 8902A- Synced to GPS
	10 MHz to 1.3 GHz FM: 50 Hz to 100 kHz	 2.3 Hz	
Chemical/Gas			
Gas Detection Equipment[5] – O_2	12 % 15 % 18 % 20.9 %	0.95% 0.81% 0.83% 0.73%	Primary Standard Gas
Gas Detection Equipment[5] – CO	20 ppm 50 ppm 60 ppm	1.4 ppm 2.6 ppm 3.0 ppm	
Gas Detection Equipment[5] – H_2S	20 ppm 25 ppm	2.7 ppm 2.7 ppm	
Gas Detection Equipment[5] – LEL	50 % 58 %	1.9% 1.9%	
Gas Detection Equipment[5] – C_4H_8	100 ppm	2.7ppm	

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

[3]Capability is suitable for the calibration of measuring devices in the stated ranges.

[4]Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

[5]On-site calibration services available for this calibration. Note that actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC listed on this Scope of Accreditation.

[6]The actual frequency applied by the calibrator cannot be selected and may be dependent on the measurement device under calibration. Approximate frequency ranges for a given capacitance or capacitance range may be found in the Fluke 5520A's published specifications.