CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
8101 Industry Drive
North Little Rock, AR 72117

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 007 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

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North Little Rock, AR 72117
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CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756**

Chemical Quantities

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
pH Meters[1]	(4.0, 7.0, 10.0) pH	0.03 pH	pH Standards
Conductivity[1]	10 µS (10 to 1 000) µS (1 000 to 100 000) µS	0.62 µS 4.2 µS 0.03 mS	Conductivity Standards

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
DC Voltage – Measure[1]	(10 to 100) mV 100 mV to 1 V (1 to 10) V (10 to 100) V 100 V to 1 kV	15 µV/V + 3 µV 16 µV/V + 0.3 µV 16 µV/V + 0.05 µV 16 µV/V + 0.3 µV 17 µV/V + 0.1 µV	HP 3458A opt 002 Multimeter
DC Voltage - Source[1]	(0 to 329.9) mV (0 to 3.299) V (0 to 32.999) V (30 to 329.999) V 100 V to 1.02 kV	6.6 µV/V + 1 µV 35 µV/V + 2 µV 0.4 mV/V + 20 µV 5.9 mV/V + 0.15 mV 19 mV/V + 1.5 mV	Fluke 5522A/SC600 Multi Product Calibrator
DC Current - Measure[1]	(10 to 100) µA 100 µA to 10 mA (10 to 100) mA 100 mA to 1 A	28 µA/A + 8 µA 25 µA/A + 5 µA 45 µA/A + 5 µA 0.18 mA/A + 10 µA	HP 3458A Opt 002 Multimeter

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
DC Current - Source[1]	(0 to 329.9) µA	50 nA/A + 20 nA	Fluke 5522A/SC600 Multi Product Calibrator
	(0 to 3.299 9) mA	0.33 µA/A + 50 nA	
	(0 to 32.999) mA	3.3 µA/A + 0.25 µA	
	(0 to 329.99) mA	33 µA/A + 2.5 µA	
	(0 to 1.099 9) A	0.22 mA/A + 40 µA	
	(1.1 to 2.999) A	1.1 mA/A + 40 µA	
	(0 to 10.99) A	5.5 mA/A + 0.5 mA	
	(11 to 20.5) A	21 mA/A + 0.75 mA	
AC Voltage – Measure	(10 to 100) mV		HP 3458A opt 002 Multimeter
	(1 to 40) Hz	0.3 mV/V + 30 µV	
	40 Hz to 1 kHz	0.2 mV/V + 11 µV	
	(1 to 20) kHz	0.3 mV/V + 11 µV	
	(20 to 50) kHz	1 mV/V + 11 µV	
	(50 to 100) kHz	5 mV/V + 11 µV	
	(100 to 300) kHz	40 mV/V + 20 µV	
	100 mV to 10 V		
	(1 to 40) Hz	0.7 mV/V + 0.4 mV	
	40 Hz to 1 kHz	0.7 mV/V + 0.2 mV	
	(1 to 20) kHz	1.4 mV/V + 0.2 mV	
	(20 to 50) kHz	3 mV/V + 0.2 mV	
	(50 to 100) kHz	8 mV/V + 0.3 mV	
	(100 to 300) kHz	30 mV/V + 1 mV	
	300 kHz to 1 MHz	0.1 V/V + 1mV	
	(1 to 2) MHz	0.1 V/V + 1 mV	
	(10 to 100) V		
	(1 to 40) Hz	20 mV/V + 4 mV	
	40 Hz to 1 kHz	20 mV/V + 2 mV	
	(1 to 20) kHz	20 mV/V + 2 mV	
	(20 to 50) kHz	35 mV/V + 2 mV	
	(50 to 100) kHz	0.1 V/V + 2 mV	
	(100 to 300) kHz	0.4 V/V + 10 mV	
	300 kHz to 1 MHz	1.5 V/V + 10 mV	
	100 V to 1 kV		
	(1 to 40) Hz	0.4 V/V + 40 mV	
	40 Hz to 1 kHz	0.4 V/V + 20 mV	
	(1 to 20) kHz	0.6 V/V + 20 mV	
	(20 to 50) kHz	1 V/V + 20 mV	
	(50 to 100) kHz	3 V/V + 20 mV	

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Voltage - Source[1]	(1 to 32.99) mV		Fluke 5522A/SC600 Multi Product Calibrator
	(10 to 40) Hz	26 µV/V + 6 µV	
	45 Hz to 10 kHz	5 µV/V + 6 µV	
	(10 to 20) kHz	6.6 µV/V + 6V	
	(20 to 50) kHz	33 µV/V + 6 µV	
	(50 to 100) kHz	0.11 mV/V + 12 µV	
	(100 to 500) kHz	0.26 mV/V + 50 µV	
	(33 to 329.99) mV		
	(10 to 45) Hz	99 µV/V + 8 µV	
	45 Hz to 10 kHz	48 µV/V + 8 µV	
	(10 to 20) kHz	53 µV/V + 8 µV	
	(20 to 50) kHz	0.12 mV/V + 8 µV	
	(50 to 100) kHz	0.26 mV/V + 32 µV	
	(100 to 500) kHz	0.66 mV/V + 70 µV	
	(0.33 to 3.299) V		
	(10 to 45) Hz	0.99 mV/V + 50 µV	
	45 Hz to 10 kHz	0.5 mV/V + 60 µV	
	(20 to 50) kHz	0.63 mV/V + 60 µV	
	(50 to 100) kHz	23 mV/V + 0.13 mV	
	(100 to 500) kHz	7.9 mV/V+ 0.6 mV	
	(3.3 to 32.99) V		
	(10 to 45) Hz	9.9 mV/V + 0.65 mV	
	45 Hz to 10 kHz	5 mV/V + 0.6 mV	
	(10 to 20) kHz	7.9 mV/V + 0.6 mV	
	20 to 50 kHz	12 mV/V + 0.6 mV	
	50 to 100 kHz	30 mV/V + 1.6 mV	
	(33 to 329.99) V		
	45 Hz to 1 kHz	63 mV/V + 2 mV	
	(1 to 10) kHz	66 mV/V + 6 mV	
	(10 to 20) kHz	83 mV/V + 6 mV	
	(20 to 50) kHz	99 mV/V + 6 mV	
	(50 to 100) kHz	660 V/V + 6 mV	
	(330 to 1 020) V		
	45 Hz to 1 kHz	0.31 V/V + 10 mV	
	(1 to 5) kHz	0.26 V/V + 10 mV	
	(5 to 10) kHz	0.31 V/V + 10 mV	

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Voltage - Source[1] (AUX output)	(10 to 329.99) mV		Fluke 5522A/SC600 Multi Product Calibrator
	(10 to 20) Hz	0.66 mV/V + 0.37 mV	
	(20 to 45) Hz	0.66 mV/V + 0.37 mV	
	45 Hz to 1 kHz	0.66 mV/V + 0.37 mV	
	(1 to 5) kHz	0.66 mV/V + 0.45 mV	
	(5 to 10) kHz	1.32 mV/V + 0.45 mV	
	(10 to 30) kHz	16.5 mV/V + 0.9 mV	
	(0.33 to 3.299) V		
	(10 to 20) Hz	6.6 mV/V + 0.45 mV	
	(20 to 45) Hz	6.6 mV/V + 0.45 mV	
	45 Hz to 1 kHz	3 mV/V + 0.45 mV	
	(1 to 5) kHz	6.6 mV/V + 1.4 mV	
	(5 to 10) kHz	13 mV/V + 1.4 mV	
	(10 to 30) kHz	0.165 V/V + 2.8 mV	
	(3.3 to 5) V		
	(10 to 20) Hz	0.01 V/V + 0.45 mV	
	(20 to 45) Hz	5 mV/V + 450 µV	
	45 Hz to 1 kHz	4.5 mV/V + 450 µV	
	(1 to 5) kHz	0.01 V/V + 1.4 mV	
	(5 to 10) kHz	0.02 V/V + 1.4 mV	
Resistance - Measure[1]	(1 to 10) Ω	23 µΩ/Ω + 0.1 mΩ	HP 3458A Opt 002 Multimeter
	(10 to 100) Ω	23 µΩ/Ω + 0.1 mΩ	
	100 Ω to 100 kΩ	11 µΩ/Ω + 0.1 Ω	
	100 k Ω to 1 MΩ	63 µΩ/Ω + 4 Ω	
	(1 to 10) MΩ	0.83 Ω/Ω + 100 Ω	
	(10 to 100) MΩ	0.1 mΩ/Ω + 10 kΩ	
	100 M Ω to 1 GΩ	10 mΩ/Ω + 10 kΩ	
Resistance - Source[1]	(0 to 10.9) Ω	0.4 mΩ/Ω + 10 mΩ	Fluke 5522A/SC600 Multi Product Calibrator
	(11 to 32.9) Ω	1 mΩ/Ω + 15 mΩ	
	(33 to 109.99) Ω	3 mΩ/Ω + 15 mΩ	
	(110 to 329.99) Ω	9.2 mΩ/Ω + 20 mΩ	
	(0.33 to 1.09) kΩ	31 mΩ/Ω + 20 mΩ	
	(1.1 to 3.299) kΩ	92 mΩ/Ω + 0.2 Ω	
	(3.3 to 10.99) kΩ	0.31 Ω/Ω + 0.1 Ω	
	(11 to 32.999) kΩ	0.92 Ω/Ω + 1 Ω	
	(33 to 109.99) kΩ	3.1 Ω/Ω + 1 Ω	
	(110 to 329.9) kΩ	11 Ω/Ω + 10 Ω	
	(33 to 1.09) MΩ	35 Ω/Ω + 10 Ω	
	(1.1 to 3.29) MΩ	0.2 kΩ/Ω + 0.15 kΩ	

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Resistance - Source[1]	(3.3 to 10.9) MΩ (11 to 32.99) MΩ (33 to 109.99) MΩ (110 to 329.99) MΩ (330 to 1 100) MΩ	1.4 kΩ/Ω + 0.25 kΩ 8.3 kΩ/Ω + 2.5 kΩ 55 kΩ/Ω + 3 kΩ 0.99 MΩ/Ω + 0.1 MΩ 17 MΩ/Ω + 0.5 MΩ	Fluke 5522A/SC600 Multi Product Calibrator
AC Current - Measure[1]	(10 to 100) µA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz 100 µA to 100 mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 100 Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz 100 mA to 1 A (10 to 20) Hz (20 to 45) Hz 45 Hz to 100 Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz	 0.4 µA/A + 0.03 µA 0.2 µA/A + 0.03 µA 0.1 µA/A + 0.03 µA 0.4 mA/A + 20 µA 0.2 mA/A + 20 µA 0.1 mA/A + 20 µA 0.1 mA/A + 20 µA 0.1 mA/A + 20 µA 0.4 mA/A + 40 µA 0.6 mA/A + 0.15 mA 4 mA/A + 0.2 mA 2 mA/A + 0.2 mA 1 mA/A + 0.2 mA 1 mA/A + 0.2 mA 3 mA/A + 0.2 mA 10 mA/A + 0.4 mA	HP 3458A Opt 002 Multimeter
AC Current - Source[1]	(29 to 329.99) µA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz (0.33 to 3.299) mA (10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	 0.66 µA + 0.1 µA 0.5 µA + 0.1 µA 0.41 µA + 0.1 µA 0.99 µA + 0.15 µA 2.6 µA + 0.2 µA 5.3 µA + 0.4 µA 6.6 µA + 0.15 µA 4.1 µA + 0.15 µA 3.3 µA + 0.15 µA 6.6 µA + 0.2 µA 17 µA + 0.3 µA 33 µA + 0.6 µA	Fluke 5522A/SC600 Multi Product Calibrator

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
AC Current - Source[1]	(3.3 to 32.99) mA		Fluke 5522A/SC600 Multi Product Calibrator
	(10 to 20) Hz	59 µA + 2 µA	
	(20 to 45) Hz	30 µA + 2 µA	
	45 Hz to 1 kHz	13 µA + 2 µA	
	(1 to 5) kHz	26 µA + 2 µA	
	(5 to 10) kHz	66 µA + 2 µA	
	(33 to 329.99) mA		
	(10 to 20) Hz	0.59 mA + 20 µA	
	(20 to 45) Hz	0.3 mA + 20 µA	
	45 Hz to 1 kHz	0.13 mA + 20 µA	
	(1 to 5) kHz	0.33 mA + 50 µA	
	(5 to 10) kHz	0.66 mA + 0.1 mA	
	(10 to 30) kHz	1.3 mA + 0.2 mA	
	(0.33 to 1.099 9) A		
	(10 to 45) Hz	2 mA + 0.1 mA	
	45 Hz to 1 kHz	0.55 mA + 0.1mA	
	(1 to 5) kHz	6.6 mA + 1 mA	
	(5 to 10) kHz	28 mA + 5 mA	
	(1.1 to 2.999) A		
	(10 to 45) Hz	5.4 mA + 100 µA	
	45 Hz to 1 kHz	1.8 mA + 100 µA	
	(1 to 5) kHz	18 mA + 1 mA	
	(5 to 10) kHz	75 mA + 5 mA	
	(3 to 10.99) A		
	(45 to 100) Hz	6.6 mA + 2 mA	
	100 Hz to 1 kHz	11 mA + 2 mA	
	(1 to 5) kHz	0.33 A + 2 mA	
	(11 to 20.5) A		
	(45 to 100) Hz	25 mA + 5 mA	
	100 Hz to 1 kHz	31 mA + 5 mA	
	(1 to 5) kHz	0.62 A + 5 mA	
Electrical Calibration of Thermocouple Indicators[1]	Type K		Fluke 5522A/SC600 Multi Product Calibrator
	-200 to -100) °C	0.33 °C	
	(-100 to -25) °C	0.18 °C	
	(-25 to 120) °C	0.16 °C	
	(120 to 1 000) °C	0.26 °C	
	(1 000 to 1 372) °C	0.4 °C	

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Electrical Calibration of Thermocouple Indicators[1]	Type J		Fluke 5522A/SC600 Multi Product Calibrator
	(-210 to -100) °C	0.27 °C	
	(-100 to -30) °C	0.16 °C	
	(-30 to 150) °C	0.14 °C	
	(150 to 760) °C	0.17 °C	
	(760 to 1 200) °C	0.23 °C	
	Type T		
	(-250 to -150) °C	0.63 °C	
	(-150 to 0) °C	0.24 °C	
	(0 to 120) °C	0.16 °C	
	(120 to 400) °C	0.14 °C	
	Type E		
	(-250 to -100) °C	0.5 °C	
	(-100 to -25) °C	0.16 °C	
	(-25 to 350) °C	0.14 °C	
	(350 to 650) °C	0.16 °C	
	(650 to 1 000) °C	0.21 °C	
	Type R		
	(0 to 250) °C	0.57 °C	
	(250 to 400) °C	0.35 °C	
	(400 to 1 000) °C	0.33 °C	
	(1 000 to 1 767) °C	0.4 °C	
	Type S		
	(0 to 250) °C	0.47 °C	
	(250 to 1 000) °C	0.36 °C	
	(1 000 to 1 400) °C	0.37 °C	
	(1 400 to 1 767) °C	0.46 °C	
	Type N		
	(-200 to -100) °C	0.4 °C	
	(-100 to -25) °C	0.22 °C	
	(-25 to 120) °C	0.19 °C	
	(120 to 410) °C	0.18 °C	
	(410 to 1 300) °C	0.27 °C	
Capacitance Source	(220 to 399.9) pF	2 pF + 10 pF	Fluke 5522A/SC600 Multi Product Calibrator
	(0.4 to 1.099) nF	5.5 pF + 0.01 nF	
	(1.1 to 3.299 9) nF	17 pF + 0.01 nF	
	(3.3 to 10.999) nF	28 pF + 0.01 nF	
	(11 to 32.999) nF	83 pF + 0.1 nF	
	(33 to 109.99) nF	0.28 nF + 0.1 nF	

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Capacitance Source	(110 to 329.99) nF (0.33 to 1.099 9) µF (1.1 to 3.299) µF (3.3 to 10.999) µF (11 to 32.999) µF (33 to 109.99) µF (110 to 329.99) µF (0.33 to 1.099 9) mF (1.1 to 3.299 9) mF (3.3 to 10.999) mF (11 to 32.999) mF (33 to 110) mF	0.83 nF + 0.3 nF 2.8 nF + 1 nF 8.3 nF + 3 nF 28 nF + 10 nF 0.13 µF + 30 nF 0.5 µF + 0.1 µF 1.5 µF + 0.3 µF 5 µF + 1 µF 15 µF + 3 µF 50 µF + 10 µF 0.25 mF + 30 µF 1.1 mF + 0.1 mF	Fluke 5522A/SC600 Multi Product Calibrator
Oscilloscope[1] DC Function Into 50 Ω Into 1 MΩ Square Wave Into 50 Ω Into 1 MΩ Edge Into 50 Ω Leveled Sine Wave Time marker	 (0 to 6.6) V (0 to 130) V ± 1 mV to ± 6.6 V p-p ± 1mV to ± 130 V p-p (2.5 to 5) V 50 kHz 50 kHz to 100 MHz (100 to 300) MHz (300 to 600) MHz 50 ms to 5 s 20 ms to 100 ns (20 to 50) ns 10 ns (2 to 5) ns	 ± 0.25 % of output + 40 µV ± 0.05 % of output + 40 µV ± 0.25 % of output + 40 µV ± 0.1 % of output + 40 µV ± 2% of output + 200 µV ± 2% of output + 300 µV ± 3.5% of output + 300 µV ± 4% of output + 300 µV ± 6% of output + 300 µV ± 2.5 ns ± 2.5 ps ± 0.5 ps ± 0.25 ps ±0.05 ps	Fluke 5522A/SC600 Multi Product Calibrator

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Gage Blocks[3]	Up to 4 in	(4.6 + 0.23L) µin	Master Gage Blocks
Plain Ring Gages[3]	(0.04 to 12) in	(34 + 0.59L) µin	LabMaster Laser Measuring System
Plug Gages[3]	Up to 14 in	(11.7 + 3.5L) µin	LabMaster Laser Measuring System
Reference Spheres	Up to 2 in	22 µin	LabMaster Laser Measuring System
Pin Gages	Up to 1 in	14 µin	LabMaster Laser Measuring System
Indicators	Up to 1 in	48 µin	Gage Blocks, Indicator Calibrator
Indicators[1]	Over 1 to 5 in	290 µin	Gage Blocks
Micrometers and Depth Micrometers[3]	Up to 12 in	(30 + 1.1L) µin	Gage Blocks
Micrometers and Depth Micrometers[1,3]	Up to 12 in	(210 + 0.85L) µin	Gage Blocks
Calipers[3]	Up to 40 in	(290 + 2L) µin	Gage Blocks
Calipers[1,3]	Up to 40 in	(290 + 6.5L) µin	Gage Blocks
Height Gages[3]	Up to 40 in	(4.1 + 6.1L) µin	Gage Blocks
Height Gages[1,3]	Up to 40 in	(4.6 + 11.7L) µin	Gage Blocks
Optical Comparators[1] Linearity Squareness Angle Magnification	Up to 16 in (0 to 180) Deg (10 to 100) X	270 µin 240 µin 5 arcsec 0.002 in	Inspection Master Angle Master
Optical Comparators[1] Linearity Squareness Angularity Magnification	Up to 16 in	530 µin 290 µin 5 arcsec 0.0021 in	Inspection Master
Microscopes[1]	Up to 0.1 in	680 µin	Stage Micrometer I1110
Precision Rules	(6 to 72) in	0.0074 in	Precision Rule and microscope

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Surface Plate Overall Flatness[1,3]	Up to (72 x 144) in	$4.7\sqrt{(D/4)}$ in	Electronic Leveling System
60 Degree Thread Plugs - Pitch Diameter	Up to 2 in	27 µin	3 wire
Thread Wires	Up to 0.3 in	13 µin	LabMaster Laser Measuring System
Angle	Up to 90 deg	1.9 arcmin	Optical Comparator
Protractors	Up to 360 deg	0.37 arcmin	Angle Blocks, Height Gage
Protractors[1]	Up to 360 deg	35 arcmin	Angle Blocks
Electronic Levels	Up to 400 s	4.3 s	Sine Plate, Gage Blocks SSCLD-12-01
Length	0 to 100 in	(290 + 6.5L) µin	Gage blocks

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Vacuum[1]	Up to 27 in Hg	0.006 inHg	Transducer
Balances[2]	Up to 20 g (20 to 200) g 200g to 1 kg (1 to 2) kg (2 to 5) kg (5 to 10) kg	0.66 mg 0.77 mg 2 mg 12 mg 0.064 g 0.23 g	Class F1 Weights to NIST Handbook 44
Scales[2]	(0 to 10) lb (10 to 20) lb (20 to 50) lb (50 to 100) lb (100 to 200) lb (200 to 500) lb (500 to 1 000) lb	0.0013 lb 0.0024 lb 0.0059 lb 0.012 lb 0.024 lb 0.059 lb 0.23 lb	Class F1 and F Weights to NIST Handbook 44

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Scales[2]	(1 000 to 2 000) lb (2 000 to 5 000) lb (5 000 to 10 000) (10 000 to 20 000) lb (20 000 to 50 000) lb (50 000 to 100 000) lb (100 000 to 200 000) lb (200 000 to 300 000) lb (300 000 to 400 000) lb	0.58 lb 1.2 lb 2.3 lb 5.8 lb 12 lb 23 lb 23 lb 58 lb 58 lb	Class F1 and F Weights to NIST Handbook 44
Torque Transducers	(0 to 100) lbf-in (0 to 100) lbf-ft (0 to 250) lbf-ft (0 to 1 000) lbf-ft	0.0058 lbf-in 0.0058 lbf-ft 0.058 lbf-ft 0.058 lbf-ft	Weights, Torque Arm
Torque Wrenches	Up to 100 lbf-in Up to 100 lbf-ft (100 to 250) lbf-ft (250 to 1 000) lbf-ft	0.58 lbf-in 0.58 lbf-ft 0.58 lbf-ft 0.58 lbf-ft	Torque Transducer
Torque Transducers[1]	(0 to 1 000) lbf-ft	0.091 lbf-ft	Weights, Torque Arm
Torque Wrenches[1]	(0 to 1 000) lbf-ft	2.9 lbf-ft	Torque Transducer
Force[1] - Compression & Tension	(0 to 100) lbf (100 to 500) lbf (500 to 1 000) lbf (1 000 to 10 000) lbf (10 to 100) klbf	0.058 lbf 0.058 lbf 0.058 lbf 0.58 lbf 13 lbf	Load Cells
Force - Compression & Tension	(0 to 1 000) lbf (0 to 10 000) lbf (10 to 100) klbf	0.022 lbf 0.19 lbf 13 lbf	Ultra Precision Load Cells
Pressure Gages Oil	Up to 10 000 psi	3.1 psi	Deadweight Tester
Pressure Gages Air	Up to 300 psi Up to 50 inH_2O Up to 100 psi Up to 1 000 psi	0.04 psi 0.004 in H_2O 0.02 psi 0.08 psi	Transducer
	(5.8 to 1 000) psi	0.007 psi	Deadweight Tester
Pressure Gages[1] Oil	Up to 10 000 psi	3.1 psi	Deadweight Tester

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Pressure Gages[1] Air	Up to 300 psi Up to 50 in H_2O Up to 100 psi Up to 1 000 psi	0.06 psi 0.02 in H_20 0.09 psi 0.16 psi	Transducer
Mass	Up to 210 g	0.3 mg	Balance, Class E2 Weights
Indirect Verification to ASTM E10 of Brinell Hardness Testers[1]	(72 to 277) HBW	3.4 HBW	Hardness Blocks
Rockwell Hardness Testers[1]	HRA Low Middle High HRBW Low Middle High HRC Low Middle High HREW Low Middle High	 0.37 HRA 0.37 HRA 0.27 HRA 0.53 HRBW 0.32 HRBW 0.32 HRBW 0.38 HRC 0.38 HRC 0.29 HRC 0.53 HRE 0.53 HRE 0.53 HRE	Indirect Verification to ASTM E18 using Hardness Blocks
Rockwell Superficial Hardness Testers[1]	HR15N Low Middle High HR30N Low Middle High HR45N Low Middle High	 0.57 HR15N 0.57 HR15N 0.27 HR15N 0.41 HR30N 0.41 HR30N 0.41 HR30N 0.51 HR45N 0.51 HR45N 0.51 HR45N	

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Rockwell Superficial Hardness Testers[1]	HR15TW Low Middle High HR30TW Low Middle High	 0.49 HR15TW 0.41 HR15TW 0.41 HR15TW 0.43 HR30TW 0.37 HR30TW 0.37 HR30TW	Indirect Verification to ASTM E18 using Hardness Blocks
Durometers Indenter Dimensions Extension Diameter/Length Indenter Radius Indenter Angle Spring Force Type A, B, E, O, D, C, DO	 (0 to 0.1) in (0 to 0.15) in (0 to 0.05) in (25 to 40) ° (0 to 4.54) kgf	 0.000 28 in 0.000 28 in 0.000 28 in 0.001 4° 0.76 grf	Direct Verification to ASTM D2240 Optical Projection Weights

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Temperature - Infrared[2]	Up to 500 °C Up to 1 200 °C	1.2 °C 1.7 °C	Black Body, Dry Well
Relative Humidity[1]- Fixed Points NaCl LiCl	 75.5 % RH 11.3 % RH	 0.76 % RH 0.76 % RH	 Salt Solutions ASTM E104
Chart Recorders Relative Humidity Temperature	 (20 to 90) % RH (-17 to 177) °C	 3 % RH 0.21 °C	Environmental Chamber, Datalogger
Temperature[1]	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1 000) °C (1 000 to 1 372) °C	0.26 °C	Thermo calibrator, Data logger, Temperature probe

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Temperature probes	(-15 to 1 200) °C	0.49 °C	Dry well, PRT thermocouple, Type S thermocouple, Environmental Chamber

Time and Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Stop Watches	0.001 s to 24 h	38 ms	NIST SP 960-12 GPS receiver
Optical Tachometers (1 to 10 000) rpm	0.5 Hz to 16.6 kHz	0.25 parts in 10^6 Hz	Fluke 5522A/SC600 Multi Product Calibrator
Frequency Source	(0.01 to 119.99) Hz (120 to 1 199.9) Hz (1.1 to 11.99) kHz (12 to 119.99) kHz (120 to 1 199.9) kHz (1.2 to 2) MHz	0.3 mHz + 5 µHz 3 mHz + 5 µHz 30 mHz + 5 µHz 300 mHz + 5 µHz 3 Hz + 5 µHz 5 Hz + 5 µHz	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. Scale calibrations performed on-site only.
3. The use of (L) signifies an expression of applied Length in inches, the use of (D) signifies an expression of applied Diagonal Length in inches.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
4808 Alma Highway
Van Buren, AR 72956

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.01
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

4808 Alma Highway
Van Buren, AR 72956
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.01**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
	(50 000 to 100 000) lb	23 lb	
	(100 000 to 200 000) lb	23 lb	
	(200 000 to 300 000) lb	58 lb	
	(300 000 to 400 000) lb	58 lb	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.01.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
2212 N. Yellowood Avenue
Broken Arrow, OK 74012

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.02
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

2212 N. Yellowood Avenue
Broken Arrow, OK 74012
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.02**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
	(50 000 to 100 000) lb	23 lb	
	(100 000 to 200 000) lb	23 lb	
	(200 000 to 300 000) lb	58 lb	
	(300 000 to 400 000) lb	58 lb	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.02.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
2325 Jonesboro Road
West Monroe, LA 71292

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.03
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

2325 Jonesboro Road
West Monroe, LA 71292
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.03**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
	(50 000 to 100 000) lb	23 lb	
	(100 000 to 200 000) lb	23 lb	
	(200 000 to 300 000) lb	58 lb	
	(300 000 to 400 000) lb	58 lb	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.03.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
6579 Reese Road
Memphis, TN 38133

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.04
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

6579 Reese Road
Memphis, TN 38133
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.04**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
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	(200 000 to 300 000) lb	58 lb	
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Notes:

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2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.04.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
1420 Donelson Pike, Suite B7
Nashville, TN 37217

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.05
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

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ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

1420 Donelson Pike, Suite B7
Nashville, TN 37217
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.05**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
	(50 000 to 100 000) lb	23 lb	
	(100 000 to 200 000) lb	23 lb	
	(200 000 to 300 000) lb	58 lb	
	(300 000 to 400 000) lb	58 lb	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.05.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
595 Pearl Park Plaza
Jackson, MS 39208

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.06
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

595 Pearl Park Plaza
Jackson, MS 39208
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.06**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
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Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.06.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
6215-120 Rangeline Road
Theodore, AL 36582

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.07
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

6215-120 Rangeline Road
Theodore, AL 36582
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.07**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
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	(200 000 to 300 000) lb	58 lb	
	(300 000 to 400 000) lb	58 lb	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.07.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
4393 West 96th Street
Indianapolis, IN 46268

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.08
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

4393 West 96th Street
Indianapolis, IN 46268
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.08**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g (20 to 200) g 200g to 1 kg (1 to 2) kg (2 to 5) kg (5 to 10) kg	0.66 mg 0.77 mg 2 mg 12 mg 0.064 g 0.23 g	Class F1 Weights to NIST Handbook 44
Scales[1]	(0 to 10) lb (10 to 20) lb (20 to 50) lb (50 to 100) lb (100 to 200) lb (200 to 500) lb (500 to 1 000) lb (1 000 to 2 000) lb (2 000 to 5 000) lb (5 000 to 10 000) (10 000 to 20 000) lb (20 000 to 50 000) lb (50 000 to 100 000) lb (100 000 to 200 000) lb (200 000 to 300 000) lb (300 000 to 400 000) lb	0.0013 lb 0.0024 lb 0.0059 lb 0.012 lb 0.024 lb 0.059 lb 0.23 lb 0.58 lb 1.2 lb 2.3 lb 5.8 lb 12 lb 23 lb 23 lb 58 lb 58 lb	Class F1 and F Weights to NIST Handbook 44

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. Only On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1756.08.

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

System Scale Corporation
34624 LA-16
Baton Rouge, LA 70706

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1756.09
Certificate Number

ANAB Approval

Certificate Valid: 06/05/2018-02/01/2019
Version No. 001 Issued: 06/05/2018

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

System Scale Corporation

34624 LA-16
Baton Rouge, LA 70706
Sean Rainey 501-562-2900
srainey@system-scale.com

CALIBRATION

Valid to: **February 1, 2019** Certificate Number: **AC-1756.09**

Mass

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (±)]	Reference Standard or Equipment
Balances[1]	Up to 20 g	0.66 mg	Class F1 Weights to NIST Handbook 44
	(20 to 200) g	0.77 mg	
	200g to 1 kg	2 mg	
	(1 to 2) kg	12 mg	
	(2 to 5) kg	0.064 g	
	(5 to 10) kg	0.23 g	
Scales[1]	(0 to 10) lb	0.0013 lb	Class F1 and F Weights to NIST Handbook 44
	(10 to 20) lb	0.0024 lb	
	(20 to 50) lb	0.0059 lb	
	(50 to 100) lb	0.012 lb	
	(100 to 200) lb	0.024 lb	
	(200 to 500) lb	0.059 lb	
	(500 to 1 000) lb	0.23 lb	
	(1 000 to 2 000) lb	0.58 lb	
	(2 000 to 5 000) lb	1.2 lb	
	(5 000 to 10 000)	2.3 lb	
	(10 000 to 20 000) lb	5.8 lb	
	(20 000 to 50 000) lb	12 lb	
	(50 000 to 100 000) lb	23 lb	
	(100 000 to 200 000) lb	23 lb	
	(200 000 to 300 000) lb	58 lb	
	(300 000 to 400 000) lb	58 lb	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

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