CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Superior Scale, Inc.
2118 Carolina Place
Fort Mill, SC 29708

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

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

CALIBRATION

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

L2077-1
Certificate Number

ANAB Approval

Certificate Valid Through: 03/19/2021
Version No. 003 Issued: 01/21/2019

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 National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Superior Scale, Inc.
2118 Carolina Place
Fort Mill, SC 29708
Steve Daniels
803-548-3320

CALIBRATION

Valid to: **March 19, 2021** Certificate Number: **L2077-1**

Electrical – DC/Low Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Thermocouple Simulation Type RTD Type J Type K Type T	 (-320 to 1 500) °F (-320 to 1 350) °F (-300 to 2 500) °F (-300 to 750) °F	 0.42 °F 1.2 °F 1.1 °F 1.1 °F	Process Calibrator w/ Thermocouple Probe

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-) [2]	Reference Standard, Method and/or Equipment
Pin/Plug Gages	(0 to 1) in	(106 + 25*L*) µin	Bench Micrometer
Calipers	(0 to 60) in	(569 + 32*L*) µin	Gage Blocks
Micrometers	(0 to 4) in (0 to 24) in (0 to 36) in	(62 + 43*L*) µin (139 + 63*L*) µin (961 + 18*L*) µin	
Indicators	(0 to 0.5) in (0 to 6) in	663 µin (613 + 81*L*) µin	
Heights Gages	(0 to 48) in	(595+15*L*) µin	Gage Blocks and Surface Plate
Rulers	(0 to 36) in	0.015 in	Gage Blocks and Lenscope

Mass and Mass Related

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Analytical Balances (0.000 1 g Resolution)	(0 to 200) g	0.64 mg	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.001 g Resolution)	(0 to 380) g	2 mg	
(0.01 g Resolution)	(0 to 1 000) g	14 mg	
Lab Balances (0.1 g Resolution)	(0 to 4.1) kg	0.13 g	ASTM E617 Class 2 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
Bench Scales (0.002 lb Resolution)	(0 to 60) lb	0.008 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.01 lb Resolution)	(0 to 100) lb	0.017 lb	
(0.05 lb Resolution)	(0 to 500) lb	0.088 lb	
Truck Scales (20 lb Resolution)	(0 to 300 000) lb	27 lb	
Industrial Scales [3] (0.1 lb Resolution)	(0 to 1 000) lb	0.17 lb	
(0.2 lb Resolution)	(0 to 2 000) lb	0.35 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.5 lb Resolution)	(0 to 5 000) lb	0.87 lb	
(1 lb Resolution)	(0 to 10 000) lb	1.8 lb	
(2 lb Resolution)	(0 to 20 000) lb	3.5 lb	

Mass and Mass Related

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Industrial Scales [3] (5 lb Resolution)	(0 to 50 000) lb	8.7 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(10 lb Resolution)	(0 to 100 000) lb	18 lb	
Pressure Gages – Hydraulic	(0 to 300) psig	0.43 psig	Druck Model DPI611 Pressure Calibrator w/ 5000 PSIG External Transducer
	(0 to 5 000) psig	12 psig	
Pressure Gages – Vacuum	(-13 to 0) psiv	0.087 psiv + 0.2 % of reading	Druck Model DPI611

Thermodynamic

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Relative Humidity Indicators	(30 to 85) % RH	2.61% RH	Compared to Psychro-Dyne
Thermocouple and Resistance Temperature Probes and Systems	(0 to 300) °C	1.5 °C	Process Calibrator w/RTD Probe and Dry Block Calibrator

Time and Frequency

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Timers	(0.5 to 60) min (1 to 8) hours	0.77 sec 1.63 sec	Reference Stopwatch

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. L = Length is in inches.
3. Industrial Scales include Floor, Tank, Hopper Crane, etc.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. L2077-1.

Vice President