CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board
500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Kanawha Scales and Systems, Inc.
26 Whitney Drive
Milford, OH 45150

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

ISO/IEC 17025:2005

while demonstrating technical competence in the fields of

CALIBRATION

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

L1166.01-1
Certificate Number

ANAB Approval

Certificate Valid:03/15/2018-03/27/2019
Version No. 002 Issued: 03/15/2018

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

Kanawha Scales and Systems, Inc.
26 Whitney Drive
Milford, OH 45150
Lara Miller 304-755-8321

CALIBRATION

Valid to: **March 27, 2019** Certificate Number: **L1166.01-1**

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Precision Scales & Balances (0.000 001 g Resolution)	(0 to 5.1 g)	0.140 mg	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.000 01 g Resolution)	(0 to 210) g	0.640 mg	
(0.000 1 g Resolution)	(0 to 100) g	0.541 mg	
(0.000 1 g Resolution)	(0 to 210) g	0.931 mg	
(0.000 1 g Resolution)	(0 to 400) g	1.579 mg	
(0.001 g Resolution)	(0 to 100) g	0.000 9 g	
(0.002 g Resolution)	(0 to 200) g	0.001 7 g	
(0.005 g Resolution)	(0 to 500) g	0.004 3 g	
(0.01 g Resolution)	(0 to 1 000) g	0.009 g	
(0.02 g Resolution)	(0 to 2 000) g	0.017 g	
(0.05 g Resolution)	(0 to 5 000) g	0.043 g	
(0.1 g Resolution)	(0 to 10 000) g	0.09 g	

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Precision Scales & Balances			ASTM E617 Class 2 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.2 g Resolution)	(0 to 20 000) g	0.17 g	
(0.5 g Resolution)	(0 to 50 000) g	0.5 g	
(1 g Resolution)	(0 to 100 000) g	0.9 g	
(2 g Resolution)	(0 to 150 000) g	1.5 g	
(5 g Resolution)	(0 to 150 000) g	3.3 g	
(10 g Resolution)	(0 to 150 000) g	6 g	
(20 g Resolution)	(0 to 150 000) g	13 g	
Industrial Vehicle Scales [2]			NIST Class F and/or ASTM E617 Class 6 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(20 lb Resolution)	(0 to 200 000) lb	14 lb	
(50 lb Resolution)	(0 to 500 000) lb	36 lb	
(100 lb Resolution)	(0 to 500 000) lb	71 lb	
(200 lb Resolution)	(0 to 500 000) lb	141 lb	
Industrial Scales [2]			NIST Class F and/or ASTM E617 Class 6 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.000 2 lb Resolution)	(0 to 2) lb	0.000 29 lb	
(0.000 5 lb Resolution)	(0 to 5) lb	0.000 71 lb	
(0.001 lb Resolution)	(0 to 10) lb	0.001 4 lb	
(0.002 lb Resolution)	(0 to 20) lb	0.002 8 lb	
(0.005 lb Resolution)	(0 to 50) lb	0.012 lb	
(0.01 lb Resolution)	(0 to 100) lb	0.014 lb	
(0.02 lb Resolution)	(0 to 200) lb	0.028 lb	
(0.05 lb Resolution)	(0 to 500) lb	0.059 lb	

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Industrial Scales [2] (0.1 lb Resolution)	(0 to 1 000) lb	0.12 lb	NIST Class F and/or ASTM E617 Class 6 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.2 lb Resolution)	(0 to 2 000) lb	0.24 lb	
(0.5 lb Resolution)	(0 to 5 000) lb	0.5 lb	
(1 lb Resolution)	(0 to 10 000) lb	1 lb	
(2 lb Resolution)	(0 to 20 000) lb	2 lb	
(5 lb Resolution)	(0 to 50 000) lb	4.3 lb	
(10 lb Resolution)	(0 to 100 000) lb	9 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. 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. Industrial Scales includes but not limited to lab balances, bench scales, floor scales, tank and hopper scales and vehicle scales
3. Laboratory offers custom (specific scale) uncertainty budget when requested by client
4. This scope is formatted as part of a single document including Certificate of Accreditation No. L1166.01-1.

Vice President