



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

### **Kanawha Scales and Systems, Inc.**

**1387 Clarendon Ave S.W.**

**Canton, OH 44710**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**CALIBRATION**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R.D.L.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 27 March 2023

Certificate Number: L1166.10-1



This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Kanawha Scales and Systems, Inc.**

1387 Clarendon Ave S.W.  
 Canton, OH 44710  
 Alex Padon  
 304-755-8321

**CALIBRATION**

Valid to: **March 27, 2023**

Certificate Number: **L1166.10-1**

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) <sup>3</sup>	Reference Standard, Method, and/or Equipment
Class I, Unmarked and High Precision Lab Balances <sup>1</sup>	(0.002 to 20) g (20.1 to 410) g	0.000 61 % of Applied Load 0.000 31 % of Applied Load	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
Class II, Unmarked and High Precision Balances & Scales <sup>1</sup>	(0.003 to 10) g (10.1 to 30 000) g	0.000 91 % of Applied Load 0.000 63 % of Applied Load	ASTM E617 Class 2 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
Class III, Unmarked & Equivalent Industrial Scales <sup>1,2</sup>	(0.001 to 500 000) lb (0.001 to 202) kg	0.01 % of Applied Load 0.01 % of Applied Load	NIST Class F and/or ASTM E617 Class 6 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
Class IIIL Vehicle and Hopper Scales <sup>1</sup>	(500 to 30 000) lb (30 001 to 500 000) lb	0.017 % of Applied Load 0.038 % of Applied Load	NIST Class F and/or ASTM E617 Class 6 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System


**Length – Dimensional Metrology**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dial / Digital Indicator <sup>1</sup>	(0 to 2) in	150 μin	Gage Blocks
Outside Micrometers <sup>1</sup>	(0 to 12) in (12 to 48) in	840 μin 0.003 4 in	Gage Blocks
Inside Micrometers <sup>1</sup>	(0 to 1) in (2 to 48) in	129 μin 740 μin	Ring Gages
Depth Micrometers <sup>1</sup>	(0 to 12) in	880 μin	Depth Master
Calipers <sup>1</sup>	(0 to 12) in (12 to 48) in	500 μin 0.001 7 in	Gage Blocks
Height Gages <sup>1</sup>	(0 to 24) in (24 to 48) in	240 μin 0.001 2 in	Gage Blocks and Surface Plate
Tape Measure	(0 to 100) ft	0.149 in	Comparison with Standard Gage Blocks / Rule Standard
Steel Rules	(0 to 72) in	0.011 in	

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 include but not limited to lab balances, bench and floor scales, tank and hopper scales and vehicle scales
3. The CMCs for balances and scales are highly dependent on the resolution of the unit under test. The CMCs presented here do not include the resolution of the unit under test. The resolution will be included in the reported uncertainty at the time of calibration.
4. Laboratory offers custom (specific scale) uncertainty budget when requested by client.
5. This scope is formatted as part of a single document including Certificate of Accreditation No. L1166.10-1



**R. Douglas Leonard Jr., VP, PILR SBU**