



# Mass Calibration Certificate



Certificate #: 76008

This calibration is accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AC-1222.

**Calibration Performed By**

PREMIER SCALES & SYSTEMS  
4901 NORTH SAINT JOSEPH AVE.  
EVANSVILLE, IN 47720

**Customer**

KOENIG SCALE  
4779 EAST MARGARET DRIVE  
TERRE HAUTE, IN 47803

**Weight and Test Information**

Equipment I.D.: **59810**  
Description: TEST WEIGHTS, STAINLESS STEEL  
Manufacturer: TROEMNER / RICE LAKE  
Denomination: KIT: 2 KG TO 1 G  
Class: ASTM CLASS 1  
Condition of Item(s) as Received: GOOD

Serial Number: 59810

Temp. / Humidity / Pressure: 20.30 °C / 48.4 % / 742.4 mmHg

Performed By: *Randolph Hundt* RHUNDT

Receive Date: 14-Sep-18

Calibration Date: 11-Oct-18

Calibration Due: 11-Oct-19

**Comments**

Tested AsFound, adjusted calibration and retested...Good Now.

**Calibration Results**

Nominal / I.D.	Results	As Found	Tolerance ±	Uncertainty ±	Results	As Left	Assumed Density (g/cm <sup>3</sup> )
2 kg / L961	P	1.16 mg	5.00 mg	0.49 mg	P	1.16 mg	7.84
1 kg / L960	P	0.02 mg	2.50 mg	0.11 mg	P	0.02 mg	7.84
500 g / L959	P	0.18 mg	1.20 mg	0.06 mg	P	0.18 mg	7.84
200 g / L958	P	-0.21 mg	0.50 mg	0.03 mg	P	-0.21 mg	7.84
50 g	P	0.044 mg	0.120 mg	0.015 mg	P	0.044 mg	7.95
20 g	P	-0.0590 mg	0.0740 mg	0.0075 mg	P	-0.0590 mg	7.95
20 g •	P	-0.0309 mg	0.0740 mg	0.0075 mg	P	-0.0309 mg	7.95
10 g	*F	0.2017 mg	0.0500 mg	0.0067 mg	P	-0.0117 mg	7.95
5 g	P	-0.0055 mg	0.0340 mg	0.0034 mg	P	-0.0055 mg	7.95
2 g	P	0.0082 mg	0.0340 mg	0.0015 mg	P	0.0082 mg	7.95
2 g •	P	-0.0158 mg	0.0340 mg	0.0015 mg	P	-0.0158 mg	7.95
1 g	P	0.0088 mg	0.0340 mg	0.0011 mg	P	0.0088 mg	7.95

**Standard(s) Used**

Kit/I.D. Number	Description	Traceability Number	Calibration Due
2XQL	METRIC WORKING STANDARD KIT	2407650J	3/29/2020

**Test Point Descriptors:**

**P = Pass** : Compliance - The measurement result is within the specification limit when the measurement uncertainty is taken into account.

**\*F = Fail** : Non-compliance - The measurement result is outside the specification limit when the measurement uncertainty is taken into account.

**NP = Not Possible** : It is not possible to state compliance even though the measurement result ± the uncertainty value overlaps the specification limit.

All values listed were determined by comparing the artifacts to Premier Scales & Systems' reference standards which are traceable to the International System of Units (SI), by an accredited lab or a NIST recognized state laboratory, through the traceability number(s) listed. All "As Found" and "As Left" values are reported as the correction value of the conventional mass of the artifact. Documented results contained within this calibration certificate relate only to the artifacts calibrated on the date listed. The uncertainty is obtained by taking the root sum square of the Type A and Type B components and multiplying by a k factor of 2 to obtain a confidence level of approximately 95 %. The uncertainty values and measurement results are included in the pass / fail condition of the artifact(s). The uncertainty values do not include a component for magnetic properties, air buoyancy corrections or handling and use. Premier Scales & Systems shall not be held liable for any inaccuracies of the artifacts after time of test. This document may not be reproduced, except in full, without the written approval of Premier Scales & Systems.

ANSI/NCSL Z540-1-1994: Part 1 & ISO/IEC 17025 Compliant

*Chris D. Bradford* 10/15/2018



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**Procedure(s) Used**

**Procedure Number**  
NISTIR 6969 SOP 4

**Description**

DOUBLE SUBSTITUTION

**Revision Level**

0

**Revision Date**

10/4/2006

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**NP = Not Possible** : It is not possible to state compliance even though the measurement result  $\pm$  the uncertainty value overlaps the specification limit.

All values listed were determined by comparing the artifacts to Premier Scales & Systems' reference standards which are traceable to the International System of Units (SI), by an accredited lab or a NIST recognized state laboratory, through the traceability number(s) listed. All "As Found" and "As Left" values are reported as the correction value of the conventional mass of the artifact. Documented results contained within this calibration certificate relate only to the artifacts calibrated on the date listed. The uncertainty is obtained by taking the root sum square of the Type A and Type B components and multiplying by a *k* factor of 2 to obtain a confidence level of approximately 95 %. The uncertainty values and measurement results are included in the pass / fail condition of the artifact(s). The uncertainty values do not include a component for magnetic properties, air buoyancy corrections or handling and use. Premier Scales & Systems shall not be held liable for any inaccuracies of the artifacts after time of test. This document may not be reproduced, except in full, without the written approval of Premier Scales & Systems.

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*Chris O'Connell* 10/15/2018