



# Mass Calibration Certificate

Certificate #: **64688**

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.: **OTN7**  
Description: TEST WEIGHTS, STAINLESS STEEL  
Manufacturer: RICE LAKE  
Denomination: KIT: 5 KG TO 1 G  
Class: ASTM CLASS 1  
Condition of Item(s) as Received: GOOD

Serial Number: OTN7  
Temp. / Humidity / Pressure: 19.80 °C / 52.4 % / 754.7 mmHg  
Performed By: *[Signature]* ODARR  
Receive Date: 04-Oct-17  
Calibration Date: 13-Oct-17  
Calibration Due: **13-Oct-18**

## Comments

## Calibration Results

Nominal / I.D.	P/*F/NP	As Found	Tolerance ±	Uncertainty ±	P/*F/NP	As Left	Assumed Density (g/cm <sup>3</sup> )
5 kg	P	0.95 mg	12.00 mg	0.84 mg	P	0.95 mg	7.95
3 kg	P	0.02 mg	7.50 mg	0.79 mg	P	0.02 mg	7.95
2 kg	P	0.34 mg	5.00 mg	0.45 mg	P	0.34 mg	7.95
1 kg	P	0.1 mg	2.5 mg	0.2 mg	P	0.1 mg	7.95
500 g	P	-0.01 mg	1.20 mg	0.13 mg	P	-0.01 mg	7.95
300 g	P	0.14 mg	0.75 mg	0.12 mg	P	0.14 mg	7.95
200 g	P	0.12 mg	0.50 mg	0.12 mg	P	0.12 mg	7.95
100 g	P	-0.132 mg	0.250 mg	0.034 mg	P	-0.132 mg	7.95
50 g	P	-0.041 mg	0.120 mg	0.022 mg	P	-0.041 mg	7.95
30 g	P	-0.027 mg	0.074 mg	0.019 mg	P	-0.027 mg	7.95
20 g	P	0.003 mg	0.074 mg	0.010 mg	P	0.003 mg	7.95
10 g	P	0.0090 mg	0.0500 mg	0.0074 mg	P	0.0090 mg	7.95
5 g	P	0.0100 mg	0.0340 mg	0.0044 mg	P	0.0100 mg	7.95
3 g	P	0.0190 mg	0.0340 mg	0.0035 mg	P	0.0190 mg	7.95
2 g	P	-0.0114 mg	0.0340 mg	0.0032 mg	P	-0.0114 mg	7.95
1 g	P	0.0026 mg	0.0340 mg	0.0038 mg	P	0.0026 mg	7.95

## 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

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*Chris O'Connell*



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**Standard(s) Used**Kit/I.D. Number

2XQL

Description

METRIC WORKING STANDARD KIT

Traceability Number

2407650J

Calibration Due

3/29/2020

**Procedure(s) Used**Procedure Number

NISTIR 6969 SOP 4

Description

DOUBLE SUBSTITUTION

Revision Level

0

Revision Date

10/4/2006

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