



Mass Calibration Certificate



CALIBRATION
 This laboratory is accredited by ACLASS Accreditation Services, an ANSI-ASQ National Accreditation Board Company through certificate number AC-1222 and the results shown in this calibration report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report.

Certificate #: **54543**

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.: **59445**
 Description: TEST WEIGHTS, STAINLESS STEEL
 Manufacturer: TROEMNER
 Denomination: KIT: (50 TO 1) G
 Class: ASTM CLASS 1
 Condition of Item(s) as Received: GOOD

Serial Number: 59445
 Temp. / Humidity / Pressure: 20.07 °C / 50.0 % / 750.0 mmHg
 Performed By: *John Forstel* JFEISTEL
 Receive Date: 07-Sep-16
 Calibration Date: 01-Oct-16
 Calibration Due: **30-Sep-17**

Comments

Tested AsFound, cleaned, adjusted calibration on the 20 g · , retested... good now.

Calibration Results

Nominal / I.D.		As Found	Tolerance ±	Uncertainty ±		As Left	Assumed Density (g/cm³)
50 g	P	0.014 mg	0.120 mg	0.020 mg	P	0.014 mg	7.95
20 g	P	-0.0011 mg	0.0740 mg	0.0098 mg	P	-0.0011 mg	7.95
20 g ·	P	-0.0246 mg	0.0740 mg	0.0098 mg	P	0.0134 mg	7.95
10 g	P	-0.0061 mg	0.0500 mg	0.0090 mg	P	-0.0061 mg	7.95
5 g	P	0.0030 mg	0.0340 mg	0.0044 mg	P	0.0030 mg	7.95
2 g	P	-0.0014 mg	0.0340 mg	0.0033 mg	P	-0.0014 mg	7.95
2 g ..	P	0.0071 mg	0.0340 mg	0.0033 mg	P	0.0071 mg	7.95
1 g	P	-0.0019 mg	0.0340 mg	0.0038 mg	P	-0.0019 mg	7.95

Standard(s) Used

Kit/I.D. Number	Description	Traceability Number	Calibration Due
2XQL	METRIC WORKING STANDARD KIT	2407650J	3/29/2020
306781	THERMOMETER, DIGITAL	48255	1/18/2017
BP-0581	BAROMETER, DIGITAL	CG042-44134-435	2/11/2018
EWS-RH	HYGROMETER, DIGITAL	49638	3/4/2017

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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Procedure(s) Used

<u>Procedure Number</u>	<u>Description</u>	<u>Revision Level</u>	<u>Revision Date</u>
NISTIR 6969 SOP 4	DOUBLE SUBSTITUTION	0	10/4/2006

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