



Mass Calibration Certificate



Certificate #: **122161**

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.: **24567**
Description: TEST WEIGHTS, STAINLESS STEEL
Manufacturer: TROEMNER
Denomination: KIT: (50 TO 1) G
Class: ASTM CLASS 1
Condition of Item(s) as Received: IN TOLERANCE

Serial Number: 24567
Temp. / Humidity / Pressure: 19.40 ° C / 45.3 % / 748.4 mmHg
Performed By: *Chris McCellhiney* CMCELLHINEY
Receive Date: 09-Mar-22
Calibration Date: 29-Mar-22
Calibration Due: **29-Mar-23**

Comments

Cleaned and acclimated prior to calibration.

Calibration Results

Nominal / I.D.	Results	As Found	Tolerance ±	Uncertainty ±	Results	As Left	Assumed Density (g/cm ³)
50 g	P	0.048 mg	0.120 mg	0.020 mg	P	0.048 mg	7.95
20 g	P	0.0050 mg	0.0740 mg	0.0098 mg	P	0.0050 mg	7.95
20 g •	P	0.0030 mg	0.0740 mg	0.0098 mg	P	0.0030 mg	7.95
10 g	P	-0.0150 mg	0.0500 mg	0.0090 mg	P	-0.0150 mg	7.95
5 g	P	0.0020 mg	0.0340 mg	0.0044 mg	P	0.0020 mg	7.95
2 g	P	-0.0010 mg	0.0340 mg	0.0033 mg	P	-0.0010 mg	7.95
2 g •	P	0.0054 mg	0.0340 mg	0.0033 mg	P	0.0054 mg	7.95
1 g	P	0.0062 mg	0.0340 mg	0.0038 mg	P	0.0062 mg	7.95

Standard(s) Used

Kit/I.D. Number	Description	Traceability Number	Calibration Due
2XQL	METRIC WORKING STANDARD KIT	3043900G	4/7/2024
306781	THERMOMETER, DIGITAL	111790	6/30/2022
BP-0581	BAROMETER, DIGITAL	CL053-31862-397	2/22/2024
EWS-RH	HYGROMETER, DIGITAL	108704	3/31/2022

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 recognized National Institute of Standards and Technology (NIST) 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.

Chris Crawford
Dated: 4/5/22 CDC



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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	2019	5/31/2019

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