PREMIER SCALES & SYSTEMS
MEASUREMENT SOLUTIONS

Mass Calibration Certificate

Certificate #: **138108**

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17025
CALIBRATION AND DIMENSIONAL MEASUREMENT
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.:	**4779M**	Serial Number:	4779M
Description:	TEST WEIGHTS, STAINLESS STEEL		
Manufacturer:	RICE LAKE	Temp. / Humidity / Pressure:	19.70 ° C / 46.2 % / 751.7 mmHg
Denomination:	KIT: (100 TO 1) G	Performed By:	Bobby R. Boeth BOETH
Class:	ASTM CLASS 1	Receive Date:	21-Jul-23
Condition of Item(s) as Received:	IN TOLERANCE	Calibration Date:	31-Jul-23
		Calibration Due:	**31-Jul-24**

Comments

Calibration Results

Nominal / I.D.	Results	As Found	Tolerance ±	Uncertainty ±	Results	As Left	Assumed Density (g/cm³)
500 mg	***F**	**0.0323** mg	0.0100 mg	0.0056 mg	**P**	**0.0002** mg	7.90
100 g	**NP**	**-0.24** mg	0.25 mg	0.11 mg	**P**	**-0.07** mg	7.90
50 g	***F**	**-0.23** mg	0.12 mg	0.04 mg	**P**	**-0.04** mg	7.90
30 g	**NP**	**-0.065** mg	0.074 mg	0.032 mg	**P**	**0.005** mg	7.90
20 g	**P**	**-0.022** mg	0.074 mg	0.027 mg	**P**	**-0.022** mg	7.90
10 g	**P**	**0.009** mg	0.050 mg	0.018 mg	**P**	**0.009** mg	7.90
5 g	**P**	**-0.010** mg	0.034 mg	0.011 mg	**P**	**-0.010** mg	7.90
3 g	**P**	**0.018** mg	0.034 mg	0.012 mg	**P**	**0.006** mg	7.90
2 g	**P**	**0.0190** mg	0.0340 mg	0.0092 mg	**P**	**-0.0140** mg	7.90
100 mg	**P**	**0.0010** mg	0.0100 mg	0.0063 mg	**P**	**0.0010** mg	7.90
1 g	**P**	**-0.0038** mg	0.0340 mg	0.0098 mg	**P**	**0.0038** mg	7.90

Standard(s) Used

Kit/I.D. Number	Description	Traceability Number	Calibration Due
2XQK	METRIC CHK STANDARD KIT	3043900F	4/7/2024
2XQL	METRIC WORKING STANDARD KIT	3043900G	4/7/2024

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 08/22/23

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BP-0581	BAROMETER, DIGITAL	CL053-31862-397	2/22/2024
EV-MSTD-TEMP/HUM-01	HYGROMETER, DIGITAL	4185-14075554	5/31/2025
SW1	TEST WEIGHTS, STAINLESS STEEL	2022-0972	12/31/2027

Procedure(s) Used

Procedure Number	Description	Revision Level	Revision Date
NISTIR 6969 SOP 4	DOUBLE SUBSTITUTION	2019	5/31/2019

Test Point Descriptors:

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Chris O Crawford 08/22/23