

***National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices***

For:

Bench Scale
Digital Electronic
Model: 300 Series
 n_{\max} : 5000; e_{\min} : See Below
Capacity: See Below
Platform: 14" x 12.6"
Accuracy Class: III

Submitted by:

Doran Scales, Inc.
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Standard Features and Options

Specific models and scale parameters covered by this certificate

Model	Capacity (lb)	e_{\min} (lb)	n_{\max}
300-050	50	0.01	5000
300-100	100	0.02	5000
300-150	150	0.05	3000

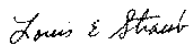
Semi-automatic (push-button) zero setting mechanism
Initial zero setting mechanism
RS-232 bidirectional serial interface

Automatic zero setting mechanism
AC power supply
Pound/kilogram/gram/ounce units

Options: Internal battery power supply with internal battery charger, includes auto shut off feature
Remote customer display
Pound/kilogram/gram/ounce conversion
Print/units keys
Remote switch that can be used for one of the following functions:
1. Convert the unit of measure
2. Semi-automatic zero
3. Print
Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: June 2, 2000



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: June 29, 2000

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

Doran Scales, Inc.
Bench Scale
Model: 300 Series

Application: General purpose bench scale.

Identification: A destructible label is attached by adhesive or a metal identification tag is riveted on the side of the scale base.

Sealing: The device can be sealed with a wire security seal threaded through screws in the cover and calibration access plate to prevent undetected access to the calibration switch.

Test Conditions: The emphasis of this evaluation was on device design, operation, marking requirements, performance, and compliance with influence factors. The Models 300-050 and 300-150 (50 lb x 0.01 lb and 150 lb x 0.05 lb) scales were submitted for evaluation. Several increasing/decreasing load and shift tests were performed. Power supplies of 100 VAC and 130 VAC were applied to the scales. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half scale capacity was applied to the scales over 100 000 times. The scales were tested periodically during this period. Additionally, tests were conducted using 5.4 DC power and 8 DC power.

The results of the evaluation indicate the devices comply with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 2000 Edition

Tested By: A. McCoy (OH), W. West (OH) and T. Lucas (OH)