

National Conference on Weights and Measures

1135 M Street, Suite 110 • Lincoln, NE 68508

Certificate Number: 09-032

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

For:

Non-Computing Scale
Digital Electronic
Model: PC500
 n_{\max} : * (See Below)
 e_{\min} : * (See Below)
Capacity: * (See Below)
Platform: 8.5" x 8.5"
Accuracy Class: III

Submitted by:

Doran Scales, Inc.
1315 Paramount Parkway
Batavia, IL 60510
Tel: (630) 879-1200
Fax: (630) 879-0073
Contact: Dan Fay
E-mail: danf@doranscales.com

Standard Features and Options

*Specific capacities covered by this certificate include:

Model	Capacity in lb	e_{\min} in lb	Capacity in kg	e_{\min} in kg	Capacity in g	e_{\min} in g	Capacity in oz	e_{\min} in oz	n_{\max}
PC500	5	0.002	2.2	0.001	2200	1	80	0.05	2500
	10	0.005	4.5	0.002	4500	2	160	0.1	2250
	25	0.01	11.3	0.005	11300	5	400	0.2	2500
	50	0.02	22.7	0.01	22700	10	800	0.5	2500

Semi-automatic zero (SAZSM)

Automatic zero setting mechanism (AZSM)

Initial zero setting Mechanism (IZSM)

RS-232 bi-directional serial interface

External Printer

External Zero Switch

Internal Batteries (5.5 vDC to 10.6 vDC)

AC/DC Adapter

Unit conversion button (lb, kg, oz, g)

OPTIONS:

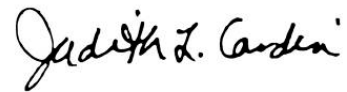
Customer display in the same housing

Temperature Range: 5 °C to 40 °C (41 °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.



Jack Kane
Chairman, NCWM, Inc.



Judith L. Cardin
Chairman, National Type Evaluation Program Committee
Issued Date: April 17, 2009

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Doran Scales, Inc.
Non Computing Scale
Model: PC500

Application: General purpose bench scale.

Identification: The manufacturer name, model number, Class and capacity by division are silk-screened around the display on the front of the device. The other required markings are located on a self-destructive badge located under the device.

Sealing: There are two means of sealing the scale.

Means 1, Physical Seal - A wire security seal can be threaded through either one of two-drilled head screws and a fixed hole in lieu of a second fixed bolt near the front bottom of the device. This prevents access to the calibration button located inside the sealed battery cover.

Means 2, Class I Audit Trail – There are two non re-settable counters, one for calibration values and one for other scale parameters. The audit counters may be accessed by holding down the zero button for 2 seconds until the audit counters appear. The display will show the parameter (P) and calibration (C) counters after which the scale reverts to the weighing mode.

Test Conditions: The emphasis of the evaluation was on the device design, marking, performance and compliance with the influence factor requirements. Three Doran PC500 Models were submitted for evaluation. 5 lb x 0.002 lb, 25 lb x 0.01 lb and 50 lb x 0.02 lb capacity scales were submitted for evaluation. Several increasing/decreasing load and shift tests were conducted. The devices were tested over a temperature range of 5°C to 40°C (41°F to 104°F). A load of approximately one-half scale capacity was applied to all three scales over 100 000 times. The scales were tested periodically during this time. Additionally, tests were conducted using 100 VAC & 130 VAC, 5.5 VDC & 10.6 VDC power supplies.

Evaluated By: J. Morrison (OH), T. Buck(OH), T. Lucas (OH)

Type Evaluation Criteria Used: NIST Handbook 44, 2008 Edition; NCWM Publication 14, 2008 Edition

Conclusion: The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Information Reviewed By: J. Truex (NCWM)

Example of Device:

