NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Non-Computing Scale
Digital Electronic, Prescription, Counting, Jewelers
Model: See Below
Capacity: DRX-4x & ADxxx (See below)
e_{min}: 0.01 g
$n_{max:}$ 32 000
Platform: 120 mm Diameter
Accuracy Class: II

Submitted By:
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Standard Features and Options

- Semi-Automatic Zero Setting Mechanism (Push-Button)
- Automatic Zero Tracking Mechanism (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (Push Button) Tare
- AC/DC Adapter
- Alpha Numeric Display
- Bar Code Scanner
- Gross/Net Display
- RS-232, USB, Ethernet, Wi-Fi
- Level Indicator
- Motion Annunciator
- Liquid Crystal Display
- Center of Zero Annunciator
- Unit: grams (g)

Model	Capacity (g)	e (g)	d (g)	n_{max}
AD120	120	0.01	0.001	12 000
AD220	220	0.01	0.001	22 000
AD320	320	0.01	0.001	32 000
DRX-4-120	120	0.01	0.001	12 000
DRX-4-220	220	0.01	0.001	22 000
DRX-4C-320	320	0.01	0.001	32 000
DRX-4C2-320	320	0.01	0.001	32 000

Bracketing of the last displayed digit is used to identify “d.”
Verification scale interval “e” is determined by the expression ($d < e \leq 10\ d$)

Load Cell Used: Torbal, MSP-051, 320g (Non-NTEP)
Temperature Range: 18 °C to 33 °C (64.4 °F to 91.4 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of “NIST 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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Committee Chair, National Type Evaluation Program Committee
Issued: July 8, 2015

Scientific Industries Inc.

Non-Computing Scale / DRX-4x & ADxxx

Application: The DRX-4x models are for use in pharmacy prescription weighing and pill counting applications. Models ADxxx are for jewelers and general purpose weighing applications.

Identification: The required information appears on a self-destructive label located on the back of the device. “Counting Feature for Prescription Filling Only” and “For Prescription Weighing Only” is labeled on the front of the scale along with Minimum Piece Weight (MPW) and Minimum Sample Size (MSS).

Sealing: Access to the calibration and configuration slide switch is prevented by threading a wire security seal through a pre-drilled screw and through a fixed tab on the back of the scale housing.

Test Conditions: The emphasis of the evaluation was on device design, operation, environmental factors, marking requirements and the counting feature for prescription filling. A model AD120, AD320 and DRX-4C-320 was submitted for evaluation. The counting feature was evaluated on the model DRX-4C-320. For models AD120 and AD320 several increasing, decreasing and shift tests were conducted. The scales were tested over a temperature range of 18 °C to 33 °C (64.4 °F to 91.4 °F). A load of approximately one-half capacity was applied to the scales over 100 000 times. The scales were tested periodically over this time. Voltage tests were also conducted using 100 VAC and 130 VAC power supplies.

Evaluated By: Z. Tripoulas (MD)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14 Weighing Devices*, 2015 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: J. Truex (NCWM)

Examples of Device: