

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

For:

Indicating Element
Digital Electronic
Model: 4200M, 4200RSS, and 4200
 n_{\max} : 3000

Accuracy Class: III

Submitted by:

Doran Scales, Inc.
1315 Paramount Parkway
Batavia, IL 60510
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Standard Features and Options

Semi-automatic zero
Semi-automatic tare
Automatic zero-setting mechanism
Pound/kilogram/ounce conversion
Multiple tare memories
Programmable tare
Gross/net display modes

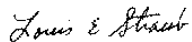
Options:

Remote customer display
Ticket, label, or dot matrix printer
Print time and date
Keyboard
Over and under scale with bar graph display
Battery power supply
Bi-Directional Communication: Scale keyboard commands can be originated from a remote device; sealable parameters cannot be changed from a remote device.

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: September 5, 1997



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: October 16, 1997

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.
Indicating Element
Model: 4200M, 4200RSS, and 4200

Application: A general purpose indicating element to be interfaced with an approved and compatible weighing element.

Identification: A metal identification badge is riveted to the right side of the indicator.

Sealing: The Models 4200 and 4200M can be sealed by threading a wire security seal through two cross-drilled screws through the cover providing access to scale adjustments. Additionally, a wire security seal should be threaded through two screws on the back cover on the left corner of the unit (when viewed from the front) and approximately half way up the back of the device.

The Model 4200RSS can be sealed by threading two wire security seals through four philister-type screws with holes through the heads of the screws. The front cover of the indicator is held by clamps against the sides of the enclosure for the indicator. There are two philister-type screws with two holes on side and two on the bottom of the indicator to seal the device.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 91-154 and is issued without additional testing to include the declaration of weight unit "ounces (oz)" which was inadvertently omitted from the Standard Features and Options section on page 1 of the original Certificate. Previous test conditions are listed below for reference.

Certificate of Conformance Number 91-154: The emphasis of the evaluation was on the device design, operation, and compliance with influence factor requirements. Tests were run on the battery operated unit, the scale was tested at the lowest voltage at which the scale continued to operate. The scale continued to perform within tolerance at the highest point of voltage at which point the scale became inoperable. The indicating element was attached with a Doran model 7030-P bench scale for this evaluation. The indicator was tested over a temperature range of -10°C to 40°C (14°F to 104°F). Additionally, tests were conducted using 100 VAC and 130 VAC.

Results of the evaluation indicate the device complies with the applicable requirements of Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1997 Edition

Tested By: B. Badenhop & J. Truex (OH) (91-154)

Information Reviewed By: L. T. Sebring (NIST) (91-154A1)