

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

For:

Indicating Element
Digital Electronic
Models: 7000M, 7000XLM, and 8000XLM
 n_{\max} : 10 000

Accuracy Class: III

Submitted by:

Doran Scales, Inc.
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Standard Features and Options

Models include: 7000M with ZERO switch and optional UNITS switch
7000XLM with ZERO, UNITS, and PRINT switches
8000XLM with ZERO/ON/OFF, UNITS, and PRINT switches and internal battery power supply
with internal battery charger, includes auto shut-off feature

Specific models covered by this certificate are those with software program 50, revision 1.3 or higher.

Semi-automatic zero setting mechanism (push-button)
Automatic zero setting mechanism
Initial zero setting mechanism for Class III applications
Remote printer capability
AC power supply
Pound/kilogram/gram/ounce units
Class I Audit Trail; Models 7000M with UNITS switch option only, all 7000XLM & all 8000XLM

Options:

Model 7000D remote customer display
RS-232 bi-directional serial interface
Ticket or label printer
Remote switch that can be used for one of the following functions:

1. Unit convert
2. 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.



Dennis E. Ehrhart
Chairman, NCWM, Inc.



Ross J. Anderson
Chairman, National Type Evaluation Program Committee
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Doran Scales, Inc.
Indicating Element
Models: 7000M, 7000XLM, 8000XLM

Application: General purpose indicating element to be used with an approved and compatible weighing element.

Identification: A destructible label is attached by adhesive or metal identification tag is riveted on the back or top of the enclosure. The enclosure is mounted on a flat swivel base that may be easily rotated to view the information on the identification tag.

Sealing: There are two means of sealing the scale.

Means 1, Physical Seal – A wire security seal can be threaded through two drilled head cover attachment screws on the back of the scale.

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 and then within 1 second pressing the units button until the audit counters appear. The display will show the parameter (P) and calibration (C) counters. Several other parameters will follow after which the scale reverts to the weighing mode.

Test Conditions: This certificate supersedes Certificate of Conformance number 99-129A1 and is issued to correct the language in the Sealing section. This certificate was issued without additional testing based on the test conditions under Certificate of Conformance 99-129A1. The previous test conditions are listed below for reference.

Certificate of Conformance Number 99-129A1: This Certificate of Conformance supersedes Certificate of Conformance Number 99-129 and is issued to add a Class I Audit Trail capability to the Doran Models 7000M, 7000XLM & 8000XLM indicators. A Doran Model 8000XLM indicator was submitted for this evaluation. The emphasis of the evaluation was on the performance of how the audit trail worked based on Publication 14 testing procedures for a Class I Audit Trail. . Additional testing was not deemed necessary. The previous test conditions are listed below for reference.

Certificate of Conformance Number 99-129: The emphasis of this evaluation was on the device design, operation, marking requirements, performance and compliance with influence factors. For the purpose of this evaluation a Model 8000XLM indicator was interfaced with a load cell simulator. Several increasing/decreasing load tests were performed. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F).

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

Type Evaluation Criteria Used: NIST Handbook 44, 2003 Edition; NCWM Publication 14, 2003 Edition

Tested By: A. McCoy (OH); T. Lucas (OH) 99-129A1

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 99-129A1, 99-129A2