

***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.
1315 Paramount Parkway
Batavia, IL 60510
Tel: (630) 879-1200
Fax: (630) 879-0073
Contact: Bill Snyder

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

Issue date: February 6, 2004

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.

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

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

For:

Bench Scale Weighing Element
Load Cell Electronic
Model: DXL7000, DXL8000 and DXL 9000 Series
* (See Below)
 n_{max} : 5000;
Capacity: 5 lb to 200 lb
Platform: 10" x 10", 12" x 12" and 15" x 15"
*(See Below)
Accuracy Class: III

Submitted by:

Doran Scales, Inc.
1315 Paramount Parkway
Batavia, IL 60510
Tel: (630) 879-1200
Fax: (630) 879-0073
Contact: Bill Snyder

Standard Features and Options

MODEL	CAPACITY	PLATFORM
DXL 7005	5 lb x 0.001 lb	10" x 10"
DXL 7010	10 lb x 0.002 lb	10" x 10"
DXL 7025	25 lb x 0.005 lb	10" x 10"
DXL 7050	50 lb x 0.01 lb	10" x 10"
DXL 8050	50 lb x 0.01 lb	12" x 12"
DXL 8100	100 lb x 0.02 lb	12" x 12"
DXL 9050	50 lb x 0.01 lb	15" x 15"
DXL 9100	100 lb x 0.02 lb	15" x 15"
DXL 9200	200 lb x 0.05 lb	15" x 15"

Other Models:

DXL 7XXX/YY where XXX = capacity in pounds and YY = platter dimensions in inches, not to exceed 100 sq in
DXL 8XXX/YY where XXX = capacity in pounds and YY = platter dimensions in inches, not to exceed 144 sq in
DXL 9XXX/YY where XXX = capacity in pounds and YY = platter dimensions in inches, not to exceed 225 sq in
Example: DXL7005/66 is a 5 lb device with 6" x 6" platter

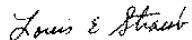
Load Cells Used:

Tedea Model 1022 (CC No 96-122), Tedea Model 1040 (CC No 89-075A2), Tedea Model 1042 (CC No 96-123) or an approved NTEP equivalent.

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: November 15, 2000



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: November 27, 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.

Doran Scales, Inc.
Bench Scale Weighing Element
Load Cell Electronic
Models: DXL 7000, DXL 8000 and DXL 9000

Application: For use in general purpose weighing applications interfaced with an approved and compatible indicator.

Identification: The required information is on a self-destructive label attached by adhesive or a metal identification badge affixed to the device under the platter

Sealing: There are no metrological features in the weighing element, all changes are made through the indicator. The indicator is sealed according to the manufacturer's instructions for the particular indicator used.

Test Conditions: This certificate supercedes and replaces Certificate of Conformance 97-097 and is issued to include the Model DXL 9000, capacities from 50 lb to 200 lb, and platform size of 15" x 15". Due to the narrow range of capacities, one scale was submitted for evaluation, a Model DXL 9100, 100 lb x 0.02 lb, 15" x 15" platform. For the purpose of this evaluation, the load receiving element was interfaced with a Doran Model 8600M indicating element (Certificate of Conformance number 94-033).

The emphasis of the evaluation was on the device design, operation, performance and compliance with influence factor requirements. Several increasing/decreasing load tests and shift tests were performed. The device was tested over a temperature range of -10° C to 40° C (14° F to 104° F). A load of approximately one-half capacity was applied to the scale over 100 000 times. The scale was tested periodically during this time

The original test conditions are repeated below for reference.

Certificate of Conformance 97-097 : The emphasis of the evaluation was on the device design, operation, performance and compliance with influence factor requirements. For the purpose of this evaluation two devices were tested the DXL7005 and the DXL 8100 were interfaced with the Doran 8600 (CC#94-033) indicator. Several increasing/decreasing load tests and shift tests were performed. Additionally, tests were conducted using 100 VAC and 130 VAC power supply. The device was tested over a temperature range of -10° C to 40° C (14° F to 104° F). A load of approximately one-half capacity was applied to both scales 100 800 times. The scale was tested periodically during this time.

The results of the evaluation indicate the device complies with the 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)

Information Reviewed By: S. Patoray, NCWM (97-097A1)