

***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.
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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

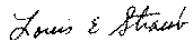
Load Cells Used:

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)

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

For:

Bench and Counter Scale
Digital Electronic
Model: DXL3000 Series
 n_{\max} : See Below e_{\min} : See Below
Capacity: See Below
Platform: See Below

Accuracy Class: III

Submitted by:

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Standard Features and Options

Model	Capacity x e_{\min}	n_{\max}	Platform
DXL3050	50 lb x 0.01 lb	5000	18" x 18"
DXL3100	100 lb x 0.02 lb	5000	18" x 18"
DXL3250	250 lb x 0.05 lb	5000	18" x 18"
DXL3300	300 lb x 0.05 lb	6000	18" x 18"

Other Models:

DXL3XXX/YYYY where XXX = capacity in pounds and YYYY = platter dimensions in inches, not to exceed 324 sq in
Example: DXL3100/1616 is a 100 lb device with a 16" x 16" platter

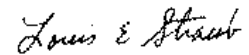
Load cell used: HBM PW16C

Temperature range of: -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.



Ronald D. Murdock
Chairman, NCWM, Inc.



Louis E. Straub
Chairman, National Type Evaluation Program Committee
Issue date: June 25, 2002

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Doran Scales, Inc.
Bench & Counter Scale
Model: DXL3000 Series

Application: General purpose weighing when interfaced with a compatible and NTEP approved 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 functions on the device so sealing is not needed. The sealing is done through the indicator per the manufactures specifications for the particular indicator used.

Test Conditions: One DXL3050 model was evaluated as a 50 lb x 0.01 lb interfaced with a Doran 9000XLM (CC no. 01-095) indicator; and one DXL3300 model was evaluated as a 300 lb x 0.05 lb interfaced with a Doran 8600M (CC no. 94-033A1) indicator. The emphasis of the evaluation was on the device design, marking requirements, and compliance with influence factor requirements. Several increasing/decreasing load 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 half capacity was applied to each base over 100 000 times. The scale was tested periodically during this time.

The results of the evaluation indicate the devices comply with the applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 2002 Edition and Publication 14, 2002 Edition.

Tested By: A. McCoy (OH)

Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM)