NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Non-Computing Scale
Counter Bench Scale, Load Cell Electronic
Models: DXL 7000, DXL 8000 and DXL 9000 Series
n_{max}: 5 000
Capacity: 5 lb to 200 lb
Platform: 10" x 10", 12" x 12" and 15" x 15"
Accuracy Class: III

***Submitted By: Contact Info. Updated: December 09**
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Standard Features and Options

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

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"

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

Temperature Range: -10 ºC to 40 ºC (14 ºF to 104 ºF)

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.

Randy Jennings
Chairman, NCWM, Inc.

Judy Cardin
Chairman, National Type Evaluation Program Committee
Issued: December 17, 2009

Doran Scales, Inc.

Non-Computing Scale / DXL 7000, DXL 8000 and DXL 9000 Series

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 supersedes 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" x15." 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 Number 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.

Evaluated By: A. McCoy (OH), W. West (OH) and T. Lucas (OH)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2000. NCWM, Publication 14: Weighing Devices, 2000.

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

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