

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

For:

Non-Computing Scale, Counter/Bench
Models: HL-3000WPN & HL-3000LWPN
 n_{max} : See Below
Capacity: See Below
Platform: See Below

Accuracy Class: III

Submitted by:

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Standard Features and Options

Model	Capacity (g)	e/d (g)	n_{max}	Platform size (mm)
HL-3000WPN	3000	1	3000	128 x 128
HL-3000LWPN	3000	1	3000	170 x 137

The HL series has the following external selectable units of measure: gram (g), ounce (oz), pound (lb)

Gross/net display

Semi-automatic (SAZSM) zero setting mechanism

Initial zero setting mechanism (IZSM)

Semi-automatic (push-button) tare

Liquid crystal display

An "LB" indication replaces the weight display for low battery conditions

lb/kg conversion

Battery power supply

Battery saving feature (sleep mode)

Motion annunciator

Level indicator

Options:

AC/DC power adapter

Temperature Range: -10°C to 35°C (14°F to 95°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.



Judith L. Cardin
Chair, NCWM, Inc.



Steven Malone
Chairman, National Type Evaluation Program Committee

Issue date: June 6, 2008

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A and D Engineering
Non-Computing Scale
Model: HL-3000WPN & HL-3000LWPN

Application: General purpose bench scale.

Identification: The manufacturer's identification, model number and serial number are on a pressure sensitive, self-destructive label located on the right side of the scale.

Sealing: The device can be sealed by threading a wire security seal through a cover on the underside of the scale, to prevent access to a contact switch that allows access to the calibration model.

Test Conditions: The Certificate of Conformance supersedes Certificate of Conformance Number 05-008 and is issued to correct the Accuracy Class in the For Box. No additional testing is required. The previous test conditions are list below for reference.

Certificate of Conformance Number 05-008: The emphasis of the evaluation was on the device design, performance, marking and compliance with influence factor requirements. A model HL-3000 WPN (3000g x 1g) was submitted for the evaluation. Several increasing/decreasing load and shift tests were conducted. The scale was tested over a temperature range of -10°C to 35°C (14°F to 95°F). Additionally, tests were conducted with a power supply of 100 VAC and 130 VAC. A load of approximately one-half capacity was placed on the scale 100,800. The device was tested periodically during the permanence test.

Evaluated By: T. Lucas (OH) & A. McCoy (OH) 05-008

Type Evaluation Criteria Used: NIST Handbook 44, 2004 Edition; NCWM Publication 14, Edition 2004

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

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 05-008, 05-008A1

Example of Device:

