

**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: II

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	lb/kg conversion
Semi-automatic (SAZSM) zero setting mechanism	Battery power supply
Initial zero setting mechanism (IZSM)	Battery saving feature (sleep mode)
Semi-automatic (push-button) tare	Motion annunciator
Liquid crystal display	Level indicator
An "LB" indication replaces the weight display for low battery conditions	

Options:

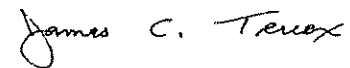
AC/DC power adapter

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



G. Weston Diggs
Chairman, NCWM, Inc.



James C. Truex
Chairman, National Type Evaluation Program Committee

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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.

**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 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)

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)