



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Computing Scale
Digital Electronic
Model: UNI-8 Series
 n_{max} : 3 000
 e_{min} : 0.005 lb / 0.002 kg
Capacity: 30 lb / 15 kg
Platform: 370 x 267 mm
Accuracy Class: III

Submitted By:

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Standard Features and Options

- Semi-automatic (push-button) Zero Setting Mechanism
- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-automatic (push-button) Tare
- RS-232 Serial Port and Network Communications
- Programmable Unit Price, Commodity Name, UPC Numbers
- Unit Price and Tare Save Key
- Percent Tare and Proportional Tare
- Load Cell Used: Minebea Co., Ltd. C2G1-25K or Minebea Co., Ltd. CLC-25N, (both non-NTEP)
- Keyboard Tare
- Tare/Net Display
- Units (lb, kg,)
- Programmable (PLU) Tare
- Integral Printer
- AC Power
- LCD/Touch Screen Operator Display, LCD Customer Display

Models	Cap x d (lb)	Cap x d (kg)
UNI-8 B	30 x 0.01	15 x 0.005
	Or	Or
	0-15 x 0.005 15-30 x 0.01	0-6 x 0.002 6-15 x 0.005
UNI-8 P	30 x 0.01	15 x 0.005
	Or	Or
	0-15 x 0.005 15-30 x 0.01	0-6 x 0.002 6-15 x 0.005
UNI-8 H	30 x 0.01	15 x 0.005
	Or	Or
	0-15 x 0.005 15-30 x 0.01	0-6 x 0.002 6-15 x 0.005

Temperature Range: -5 °C to 40 °C (23 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program 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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Mahesh Albuquerque
Chairman, NCWM, Inc.

Ivan Hankins
Chair, NTEP Committee
Issued: April 20, 2023

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Ishida Mfg. Korea Co. Ltd.
Computing Scale / UNI-8 Series

Application: This is a computing scale used in general purpose weighing for retail, self-service, and pre-packaging.

Identification: For UNI-8 B and UNI-8 P the required markings are located on the left side of the scale. The capacity and division size information is in the lower-left area of the display. For UNI-8 H, the required markings are on the top of the main body.

Sealing: For all 3 models, two screws with holes for a sealing wire prevents access to the calibration switch inside and from opening the case. On the bench and pole models the screws are located on the left-hand side of the device. On the hanging model the screws are located on the top left of the device. There are 2 screws on the bottom of the bench and pole models that seal the base of the device with a wire seal.

Test Conditions: The models UNI-8 B (6/15 kg x 0.002/0.005 kg) and UNI-8 H (15 kg x 0.005 kg) computing scales were submitted for evaluation. The emphasis of the evaluation was on device design, operation, marking requirements, compliance with influence factor requirements, and accuracy of computations. Several increasing, decreasing, and eccentric loading tests were conducted to evaluate the performance of the scales. Each scale was tested at 85 VAC and 264 VAC. Influence factor tests were conducted over a temperature range of -5° C to 40° C (23° F to 104° F). Several receipts were printed using the integral label printer. Additionally, a load of approximately half capacity was applied to the scales over 100 000 times. The scales were tested periodically over this time for accuracy, zero functions, and general metrological operation.

Evaluated By: B. Sipe (OH) (CN10689)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2023 Edition. NCWM Publication 14: Weighing Devices, 2023 Edition.*

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

Information Reviewed By: D. Flocken (NCWM)

Example(s) of Device:

UNI-8 B



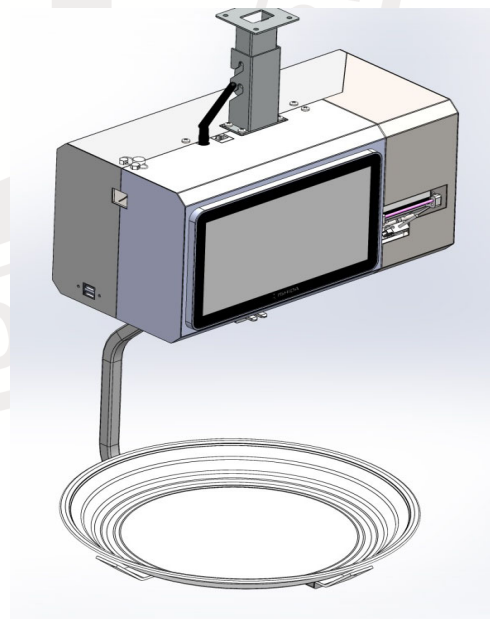


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UNI-8 P



UNI-8 H





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Sealing Options:

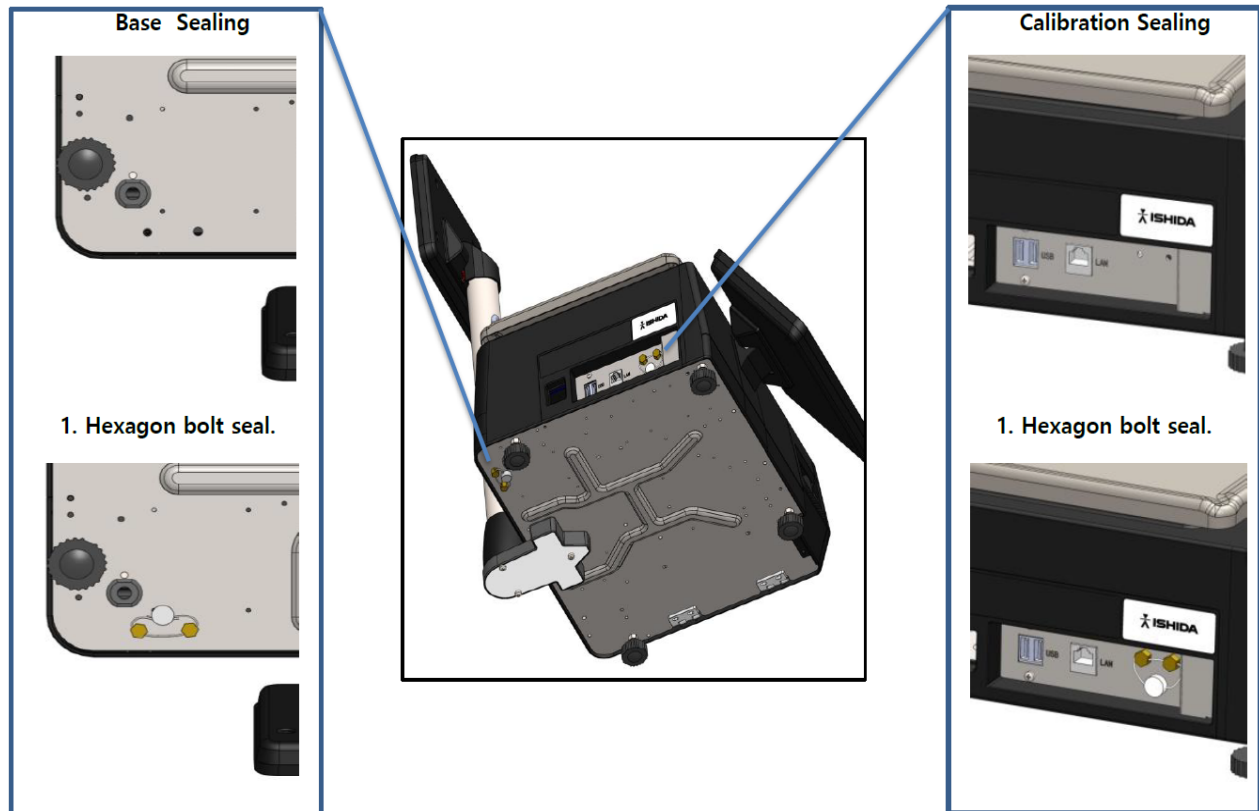
UNI-8 B, Sealing Options





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Computing Scale / UNI-8 Series

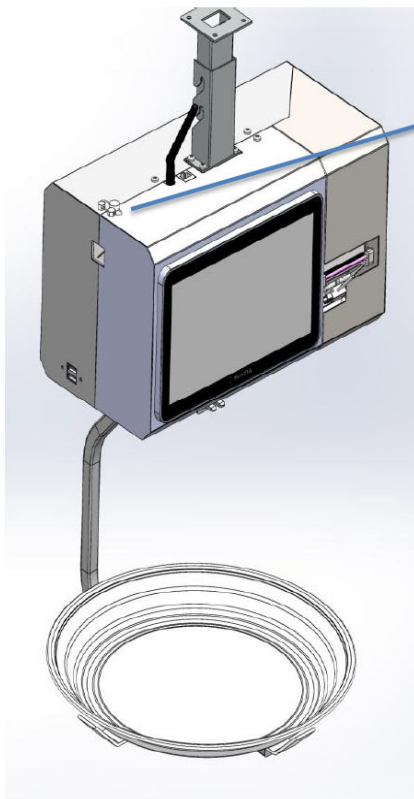
UNI-8 P, Sealing Options



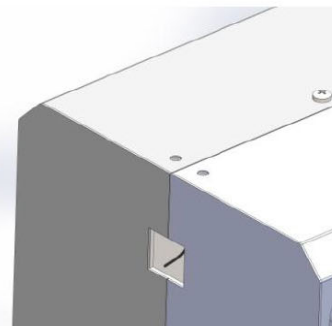


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UNI-8 H, Sealing Options



Calibration Sealing



1. Hexagon bolt seal.

