NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

## for Weighing and Measuring Devices

**For:**
Computing Scale
Digital Electronic
Model: UNI-9 Series (See Table Below)
$n_{max}$: (See Table Below)
$e_{min}$: 0.005 lb / 0.002 kg / 0.1 oz
Capacity: 30 lb to 60 lb / 15 kg to 30 kg / 240 oz to 480 oz
Platform: 9.00 in x 14.00 in / 15.75 in x 10.75 in
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
- Percentage Tare
- Integral weighing unit or separated weighing unit
- Keyboard Tare
- Gross/Tare/Net Display
- Units (kg, g, lb, oz)
- Programmable (PLU) Tare
- Integral Printer
- AC Power
- LCD Display, Touch Screen
- Wireless weighing unit
- Small operator display (optional)
- Load Cell Used: Ishida Model ULC 25L or CLC-25L or NMB CLC-25N for 15 kg / 30 lb or Ishida Model ZLC-60L for 30 kg / 60 lb (non-NTEP)

| Models | Cap x d (lb) | Cap x d (kg) | $n_{max}$ | Suffix Designation |
|---|---|---|---|---|
| UNI-9 B | 60 x 0.02 | 30 x 0.01 | 3000 | **B:** Regular Customer Display |
| UNI-9 H* | **OR** | **OR** | **OR** | **H*:** Hanging |
| UNI-9 BP | 30 x 0.01 | 15 x 0.005 | 3000 | **BP**: Designates optional customer display |
| | **OR** | **OR** | **OR** | |
| UNI-9 P | 0 to 15 x 0.005 / | 0 to 6 x 0.002 / | 3000 / | **P:** Customer Display on Pole |
| UNI-9 SS | 15 to 30 x 0.01 | 6 to 15 x 0.005 | 3000 | **SS**: No operator display |
| | **OR** | **OR** | **OR** | |
| UNI-9 XL | 60 x 0.01 | 30 x 0.005 | 6000 | **XL:** Label Printer/Regular Customer Display (option) |
| | **OR** | | **OR** | |
| | 0 to 240 oz x 0.1 oz / | | 2400 / | |
| | 240 to 480 oz x 0.2 oz | | 2400 | |

Temperature Range: -5 °C to 40 °C (23 °F to 104 °F) for 15 kg (30 lb or 480 oz), 0 °C to 35 °C (32 °F to 95 °F) for 30 kg (60 lb)

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.

Brett Gurney
Chairman, NCWM, Inc.

James Cassidy
Committee Chair, National Type Evaluation Program Committee
Issued: June 27, 2019

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**Ishida Co., Ltd.**
Computing Scale / UNI-9 Series

**Application:** General purpose industrial, retail, self-service and pre-packaging scale.

**Identification:** The required markings are located on the right side of the scale. The capacity and division size information is adjacent to the weight display. For UNI-9 H, the required markings are located on the bottom of the main body.

**Sealing:** For UNI-9 B, P, and XL, a tamper-evident paper seal over a cover plate and one screw underneath the scale platter prevents access to the calibration switch inside and opening the case. Alternatively, the plate can be secured by the wire and screw seal. For UNI-9 H, a tamper-evident paper seal over two screws prevents access to the calibration switch inside and opening the case. Alternatively, they are secured with a wire security seal through two screws. For 30 kg (60 lb), a tamper-evident paper seal over a case of weighing unit prevents access to the calibration switch inside.

**Test Conditions**: This certificate supersedes Certificate of Conformance 12-121A2 and is issued to add load cell models (Ishida CLC-25L and NMB CLC-25N) as options for the 15 kg / 30 lb scale. NTEP evaluated scales with the Ishida CLC-25L and NMB CLC-25N load cells, but they were not included on the previous certificates. Contact information was also updated. No further testing was deemed necessary. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 12-121A2:** This Certificate supersedes Certificate of Conformance Number 12-121A1 and is issued to include the 60 lb x 0.01 lb (30 kg x 0.005 kg) UNI-9 XL device and to add ounces to the list of available units. A multi-interval (0-240 x 0.1 oz / 240-480 x 0.2 oz) UNI-9 B was submitted for ounce unit evaluation. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 12-121A1:** This Certificate supersedes Certificate of Conformance Number 12-121 and is issued to recognize a change of model numbers for two versions of the UNI-9 series scale. No additional testing was deemed necessary. Contact information has also been updated.

**Certificate of Conformance Number 12-121:** Three models (UNI-9 H, UNI-9 P and UNI-9 XL) computing scales were submitted for evaluation. All models can be connected with the separated weighing unit. The communication between the weighing unit and the main control unit may be conducted by cable or wireless communication. Both communications were tested. The emphasis of the evaluation was on device design, operation, marking requirements, performance, compliance with influence factor requirements and accuracy of computations. Several increasing, decreasing, and eccentric loading tests were conducted to evaluate the performance of the scale. Also each scale was tested over a voltage range of 100 VAC to 130 VAC. Influence factor tests were conducted over a temperature range of -5 °C to 40 °C (23 °F to 104 °F) for 15 kg (30 lb) capacity and 0 °C to 35 °C (32 °F to 95 °F) for 30 kg (60 lb) capacity. Several receipts were printed utilizing the RS-232 serial port connected to the scale and several receipts were generated using the integral receipt printer. Additionally, a load of approximately half capacity was applied to this scale over 100 000 times. The scale was tested periodically over this time for accuracy, zero functions and general metrological operation.

**Evaluated By:** C. Harris (OH) 12-121; J. Morrison (OH) 12-121, 12-121A2; T. Buck (OH) 12-121A3

**Type Evaluation Criteria Used:** *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14 Measuring Devices*, 2019 Edition.

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

**Information Reviewed By:** J. Truex (NCWM) 12-121, 12-121A2; D. Flocken (NCWM) 12-121A3

**Ishida Co., Ltd.**
Computing Scale / UNI-9 Series

**Examples of Device:**

Model UNI-9 B customer side

Model UNI-9 B operator side

Small operator display (Optional)

Model UNI-9 P customer side

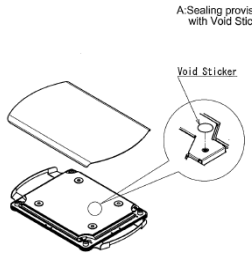
Model UNI-9 P operator side

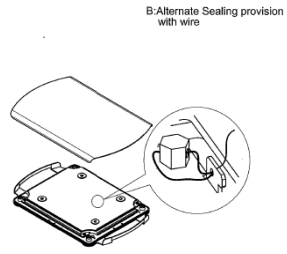
Model UNI-9 P short pole type


30 kg (60 lb) capacity / sealing

Model UNI-9 XL

Separated weighing unit small, Large(oval) 15kg(30lb) capacity

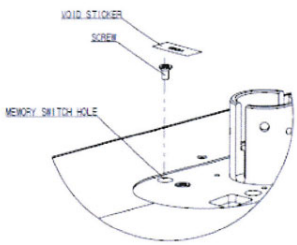



15 kg (30 lb) capacity sealing

Model UNI-9 H customer side

Model UNI-9 H operator side




Model UNI-9 H sealing