

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

For:

Computing Scale
Digital Electronic
Model: ASTRA
 n_{\max} : 3000
Capacity: 30 lb x 0.01 lb
Platform: 14-in x 9.5-in
Accuracy Class: III

Submitted by:

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Standard Features and Options

Semi-automatic (push button) zero setting mechanism
Automatic (AZSM) zero setting mechanism
Initial (IZSM) zero setting mechanism
Keyboard tare
Semi-automatic (push button) tare
Programmable tare
Multiple tare memories
Tare save key
Integrated printer
AC power
Separate Gross/tare/net display
Customer display (dual)
Alphanumeric display
RS-232

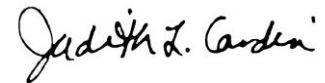
Optional: Pedestal mounted indicator for operator and customer

Temperature range: -5°C to 40°C (23°F to 104°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.



Jack Kane
Chairman, NCWM, Inc.



Judith L. Cardin
Chairman, National Type Evaluation Program Committee
Issue date: August 29, 2008

**Ishida Co. LTD
Computing Scale
Model: ASTRA**

Application: Computing scale used for direct/indirect sale.

Identification: The required information is on a metal badge affixed with screws on the left side of the scale

Sealing: The device is sealed by means of a wire security seal threaded through two flat head screws in the bottom of the device and then screwed through a plastic plug on the side of the device.

Test Conditions: This certificate supersedes Certificate of Conformance Number 00-107A1 and is issued to indicate an alternative adhesive foil badge for the identification of the device. The foil identification badge was evaluated and found to meet all NTEP requirements for permanence. No additional testing was required. Previous test conditions are stated below for reference.

Certificate of Conformance Number 00-107A1: This certificate supersedes Certificate of Conformance Number 00-107 and is issued to include the option of a pedestal mounted indicating element that replaces the indicating element in the scale housing. A model Astra, 30 x .01 lb computing scale was submitted for the evaluation with the optional pedestal mounted indicator. The emphasis of the evaluation was on the device marking requirements, tare operation and weight and money displays. Several different tares were entered and various prices computed to verify the operation of both tare and computing functions. No further testing was deemed necessary.

Certificate of Conformance Number 00-107: The emphasis of the evaluation was on the device design, operation, marking requirements and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were performed. The scale was tested over a temperature range of -5°C to 40°C (23°F to 104°F). A load of approximately one-half scale capacity was applied to the scale 100 800 times. The scale was tested periodically during this time. Tests were also conducted with a power supply of 100 - 130VAC.

Evaluated By: A. McCoy (OH), 00-107, W. West (OH) 00-107A1

Type Evaluation Criteria Used: NIST Handbook 44, 2001 Edition; NCWM Publication 14, 2001 Edition

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

Reviewed By: S. Patoray, (NCWM) 00-107, 00-107A1, 00-107A2

Example of Device:

ASTRA



Pole type