



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: CI-100A
 $n_{\max}$: 5000
Accuracy Class: III

Submitted By: Contact Info. Updated January 2024

CAS Corporation
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Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (Push Button) Zero
- Keyboard Tare
- Semi-Automatic (Push Button) Tare
- DC Power / Battery (6 VDC Nominal)
- AC Power Supply (120VAC Nominal)
- Power Saving Feature (Auto Shut Off)
- Alphanumeric Display
- Gross/Net Display
- Liquid Crystal Display (LCD)
- Communication Ports: RS-232 and USB
- Linearity Calibration Points (3)
- Units: lb, oz, kg, g (lb/oz units for postal use only)

Temperature Range: -10 °C to 40 °C (14 °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 "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.

Kristin Macey
Chairman, NCWM, Inc.

Jerry Buendel
Committee Chair, National Type Evaluation Program Committee
Issued: November 21, 2016

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CAS USA Corporation
Indicating Element / CI-100A

Application: A general purpose indicating element to be interfaced with an NTEP certified and compatible weighing element.

Identification: All required markings are on an adhesive label on the back of the indicator that repeats the word “VOID” if removed. The front of the indicator will be marked at the time of set up with capacity by division.

Sealing: This is a category 1 sealing device. A wire seal is threaded through two drilled head screws to prevent removal of a plate covering the calibration switch on the back of the indicator. (Please see picture below.) Please be sure calibration switch is set to “OFF” before sealing the plate.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. The emphasis of this evaluation was on the device design, operation, marking requirements, performance, and compliance with influence factors. A Model CI-100A indicating element was interfaced with a load receiving element to verify zero, zone of uncertainty, motion detection, power interruption, printing format, and unit switching capabilities. The device was also interfaced with our load cell simulator to complete several increasing/decreasing tests, a warm up test, AC voltage test at 102 VAC and 132 VAC, DC voltage test at 4.1 VDC and 6.6 VDC. The indicating element was evaluated over a temperature range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: M. Kelley (OH), T. Buck (OH)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2016 Edition. *NCWM Publication 14 Weighing Devices*, 2016 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)

Example of Device:

