



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: AK7190 and CK7590
 n_{\max} : 10 000
Accuracy Class: III

Submitted By:

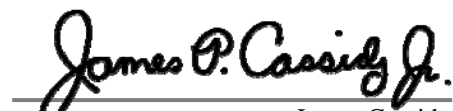
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Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Semi-Automatic Tare (Push Button)
- AC Power
- DC Power / Battery
- Power Saving Feature (Sleep Mode)
- Alphanumeric Display
- Gross / Net Display
- Units: kg, g lb, oz
- RS-232 Communication Port
- USB Communication Port

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, NTEP Committee
Issued: September 24, 2018

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**Nanjing Toms Weighing Instrument Co., Ltd.**

Indicating Element / AK7190 and CK7590

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

Identification: The required making information is located on the back of the device. Labels for capacity, division, CLC (concentrated load capacity; if required), and section capacity (if required) will be identified on an adhesive label. The label will self-destruct when removed.

Sealing: The devices are sealed with paper security seals as follows:

The AK7190 requires at least two seals, one covering a screw preventing separation of the two halves of the unit cover and another covering the rubber plug that allows access to the calibration switch.

The CK7590 requires one seal across the seam on the top of the unit preventing separation of the two halves of the unit.

Test Conditions: A model AK7190 and a model CK7590 were submitted for this evaluation. The emphasis of the evaluation was on device design, operation, and compliance with environmental factors. Both models were interfaced with a load cell simulator and had several increasing and decreasing load tests performed. Additionally, both were tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The devices were tested with 100 VAC and 130 VAC power supplies and 6 VDC and 13.2 VDC power supplies.

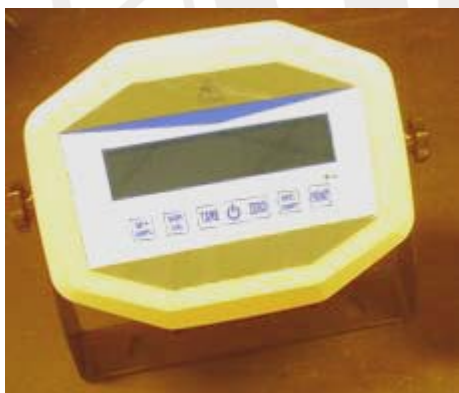
Evaluated By: E. Morabito (NY)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2018 Edition. *NCWM Publication 14 Weighing Devices*, 2018 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)

Examples of Device:



Model AK7190



Model CK7590

