



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: HI-3030
 n_{max} : 10 000

Accuracy Class: III/III L

***Submitted By: Contact Info. Updated October 2022**

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Standard Features and Options

- Pound/kilogram unit conversion
- Liquid crystal display
- Alphanumeric display
- Gross/tare/net weight display
- Gross/net weight display
- Keyboard tare
- Semi-automatic (push-button) tare
- Semi-automatic (push-button) zero
- Automatic zero setting mechanism (AZSM)
- AC power supply
- Ethernet communication port
- Category 3 audit trail

Options:

- Remote calibration
- Configuration capability

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.


Brett Gurney
Chairman, NCWM, Inc.


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Issued: November 30, 2005

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Hardy Instruments, Inc.
Indicating Element / HI-3030

Application: General purpose indicator for Class III and Class III L installations.

Identification: The identification is on a self-adhesive and self-destructive badge at the bottom of the indicator.

Sealing: Sealing is by Category 3 audit trail only. The configuration and calibration parameters are password protected and can be accessed within the device itself. Sealing is initiated by pressing the “Test or (9)” key and “Enter” key. A “Device Data List” will then be displayed. Press the “Down” arrow key until “View Audit Trail” is displayed. Press “Enter”, the audit trail information is displayed by name, value, and dates in designated audit trail lines. Press “Exit” to leave the audit trail mode.

Operation: The indicator may support up to four weighing elements independently and simultaneously. Each port can be independently calibrated, configured, and sealed for weighing operations.

Test Conditions: The Model HI-3030 electronic indicator was submitted for evaluation. The emphasis of the evaluation was on device design, operation, performance, and compliance with influence factor requirements. The indicator was interfaced with a weight simulator and tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Tests were also conducted over a voltage range of 100 VAC to 130 VAC. Additionally, the indicator was interfaced with a weighing element to verify compliance with motion detection, momentary power loss, and zero function requirements.

Type Evaluation Criteria Used: NIST Handbook 44, 2005 Edition, NCWM Publication 14, 2005 Edition

Tested By: S. Boyd (CA)

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

Information Reviewed By: S. Patoray, L. Bernetch (NCWM)

