



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Non-Computing Scale  
Digital Electronic, Postal / Shipping Scale  
Model: i-C71Mxy Series (see models below)  
 $n_{max}$ : 5000  
 $e_{min}$ : 0.01 lb (0.005 kg) to 0.05 lb (0.05 kg)  
Accuracy Class: III

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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)
- Programmable Tare (Thru RS232 port)
- Automatic Tare
- AC / DC External Power Supply
- Gross / Net Display
- Liquid Crystal Display
- Remote Customer Display
- Units: Kilogram (kg), Gram (g), Pound (lb), Ounce (oz), lb:oz (postal use only)
- RS-232 Communication Port
- Optional USB Communication Port
- Remote Calibration (Category 2 thru RS232 Port)
- Linearity Calibration Points
- Optional Ethernet
- Wi-Fi & Bluetooth (Thru optional USB Communication Port)
- External Printer
- Motion Detection
- Category 1 Sealing Method
- Center of Zero Announcer
- Optional Roller or Ball Top Platter

**Load Cells Used:** See selection below **Non-NTEP** certified:

Manufacture	Model
Ohaus	LBZ3-D-C3-30kg, LBZ3-A-C3-100kg
Mettler Toledo	0795-100kg, 0795-200kg, 0805-250kg

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.

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**Ohaus Corporation**  
i-C71Mxy Series / Non-Computing Scale

Meaning of the codes used in model numbers and other information

For models i-C71Mxy:

i-C71: Courier scale family

M: Metal for material of weighing platform

x: Capacity in kg

y: (R= 305 mm x 355 mm), (L= 457 mm x 457 mm), (X= 610 mm x 610 mm) platform size

Model	Maximum Capacity	e = d d	n <sub>max</sub>	Accuracy Class
i-C71M15R	30 lb / 15 kg	0.01 lb / 0.005 kg	3000	III
i-C71M75R	150 lb / 75 kg	0.05 lb / 0.05 kg	3000	III
i-C71M50L	100 lb / 50 kg	0.02 lb / 0.01 kg	5000	III
i-C71M125L	250 lb / 125 kg	0.05 lb / 0.05 kg	5000	III
i-C71M125X	250 lb / 125 kg	0.05 lb / 0.05 kg	5000	III

**Application:** For use in general purpose weighing applications and postal/shipping applications.

**Identification:** The required markings are located on a label affixed to the housing of the indicator and is a tamper proof void if removed type of label.

**Sealing:** When scale is powered on the fifth item shown in a rolling display is “LFT ON” this shows that the scale security switch is set to “Legal for Trade mode”. Metrological parameters cannot be adjusted when the security switch is enabled. “LFT” (Legal for Trade) setting, and Calibration lockout setting are set to “On”. This switch is protected by a wire seal which is threaded between a drilled head screw and a plastic loop on the bottom housing of the indicator. To verify that the device is sealed against changes to metrological parameters, turn the device off and back on. If the security switch and LFT setting are set correctly, the display will show "LFT on" during power up. A second method of sealing the cover is to use a recessed screw that is flush when tightened and an adhesive tamper proof seal can then be placed over the screw. When connected via RS232 port the device can be remotely calibrated and configured only after the security switch has been manually switched off. Please refer to sealing images in the examples of Sealing section.

**Test Conditions:** The emphasis of the evaluation was on the device design, operation, performance, markings and compliance with influence factors. Ohaus Models i-C71M15R 30 lb (15 kg) x 0.01 lb (0.005 kg) and a i-C71M125X 250 lb (125 kg) x 0.05 lb (0.05 kg) non-computing scales were submitted for evaluation. The i-C71M15R was interfaced with a Ohaus SF40A Printer along with several Ohaus options like Ohaus RS232 interface and USB interface to provide wi-fi capabilities. Also, an Ohaus model AD7-MD customer remote display was interfaced, and temperature tested. Multiple increasing/decreasing tests and shift tests were performed in kilogram, grams, pounds, and ounces to verify conformance. Increasing/decreasing and shift tests were also conducted on Roller and Ball Top Platters. A discrimination, eccentricity and suitability of level indicator test were performed. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Permanence testing was performed with a load of approximately one-half capacity and was applied to the two devices 100 000 times. The two devices were then tested after 100 000 cycles for permanence, eccentricity, and discrimination. Additional tests were conducted using AC and DC voltage at 85 VAC and 264 VAC input and 5 VDC output. Battery power was conducted at 6.6 VDC max and 4.3 above blackout. all applicable checklist requirements were evaluated.

**Evaluated By:** B. Stone (OH)

**Type Evaluation Criteria Used:** *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2022 Edition. NCWM Publication 14 Weighing Devices, 2022 Edition.*

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

**Information Reviewed By:** D. Flocken (NCWM)



**Ohaus Corporation**  
i-C71Mxy Series / Non-Computing Scale

Examples of Device:



Examples of Sealing

