



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Bench and Counter Scale, Digital Electronic
Models: TRxxRS and TCxxRS
Trade Names: Trooper and Trooper Count
 n_{max} : 3 000
 e_{min} : 0.002 lb (0.001 kg)
Capacity: 6 lb to 60 lb (2.7 kg to 30 kg)
Platform: 9" x 13.5"
Accuracy Class: III

***Submitted By: Contact Info. Updated: December 2010**

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Standard Features and Options**Standard Features:**

- Semi-automatic (push-button) Zero Setting Mechanism
- Automatic (AZSM) Zero Setting Mechanism
- Initial Zero Setting Mechanism (IZSM)
- Semi-automatic (push-button) Tare
- Key Board Tare (TCxxRS only)
- Gross/Net Display
- Net Display (TCxxRS only)
- Triple -Window Backlit Display (TCxxRS only)
- The TCxxRS Model Does Not Have a Center of Zero Annunciator but Zero is Maintained Within 1/4 of a Scale Division
- Liquid (LCD) Crystal Display
- AC/DC Adapter
- Battery Power Supply
- Battery Saving Feature (auto shut-off)
- RS232 Communication Port
- Remote Printer Capability
- kg /gram/ pound /ounce Conversion

Load Cell Used:

- Mettler Toledo (non-NTEP) load cells

Model Number	Capacity	Part Number	Scale Capacity
AMI-5	5 kg	72184999	6 lb / 3 kg
AMI-6.5	6.5 kg	*140050*	6 lb / 3 kg
AMI-11	11 kg	72186986	15 lb / 6 kg
AMI-12.5	12.5 kg	*140051*	15 lb / 6 kg
AMI-22	22 kg	72186876	30 lb / 15 kg
AMI-30	30 kg	*140052*	30 lb / 15 kg
AMI-40	40 kg	72186879	60 lb / 30 kg
AMI-40	40 kg	*140053*	60 lb / 30 kg

where () indicates revision level

Temperature Range: 5 °C to 40 °C (41 °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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Tim Tyson
Chairman, NCWM, Inc.

Randy Jennings
Chairman, National Type Evaluation Program Committee
Issued: December 20, 2010

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Ohaus Corporation

Non-Computing Scale / TRxxRS and TCxxRS

Application: For use in general purpose weighing applications including a parts counting function marked "COUNTING FEATURE NOT LEGAL FOR TRADE."

Identification: The required information appears on a foil badge located on the side of the scale.

Sealing: The device is sealed by wire security seals on the bottom of the housing. There are two plastic plates with a tab that may be sealed, using one drilled head screw each and the tab, to prevent access to the calibration switch.

Operation: In addition to the weight display the TCxxRS device has a data and count display that are used in not legal for trade applications. When scale is in legal for trade mode the data and count displays will not be operational and will display (-----) dashes. The annunciator (PT) is the only annunciator to be lit in the data display. It will be lit when a keyboard tare is entered, while the data display continues to display (-----) dashes.

Test Conditions: This certificate of conformance supersedes certificate of conformance number 02-009A2 and is issued to include additional AMI load cell models in the Standard Features and Options box. Models TC15RS (15 kg x 0.005 kg) and TR30RS (30 kg x 0.01 kg) were submitted for evaluation. Several increasing/decreasing and shift tests were performed. The scales were tested over a temperature range of 5 °C to 40 °C (41 °F to 104 °F). A load of approximately one-half capacity was applied to the scale over 100 000 times. The scale was tested periodically during this time. Previous tests results are listed below for reference.

Certificate of Conformance Number 02-009A2: This Certificate supersedes NTEP Certificate of Conformance 02-009A1 and is issued to clarify the model information on the CC. No metrological changes were made to the actual device. No additional testing was required.

Certificate of Conformance Number 02-009A1: This certificate supersedes 02-009 and is issued to add the model Trooper Count. The emphasis of the evaluation was on the device design, marking requirements, and performance. For the purpose of this evaluation, a model TC30RS 60 lb x 0.02 lb (30 kg x 0.01 kg) device was submitted. A complete checklist was completed and several increasing/decreasing load tests were conducted. No further testing was deemed necessary.

Certificate of Conformance Number 02-009: The emphasis of the evaluation was on the device design, marking requirements, performance, and compliance with influence factors. For the purpose of this evaluation, two models of this series were submitted: 6 lb x 0.002 lb and 60 lb x 0.02 lb. Several increasing/decreasing load and shift tests were conducted. The scales were tested over a temperature range of 5 °C to 40 °C (41 °F to 104 °F). A load of approximately one-half capacity was applied to the scales over 100 000 times. The scales were tested periodically over this time. Tests were conducted using 100 VAC and 130 VAC, and 5.2 to 10.5 volt DC power supplies.

Evaluated By: W. West (OH) 02-009; A. McCoy (OH) 02-009A1; T. Lucas (OH), T. Buck (OH) 02-009A3

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2008. NCWM, Publication 14: Weighing Devices, 2008.

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

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 02-009, 02-009A1, 02-009A2; J. Truex (NCWM) 02-009A3

Example of Device:



Model TRxxRS



Model TCxxRS