



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Floor Scale, Digital Electronic
Model: EQM Series
 n_{max} : 4000 to 5000
Capacity: 400 lb to 2000 lb (See Below)
Platform: 31.5" x 27" and 37" x 28.75"
Accuracy Class: III

Submitted By:

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Standard Features and Options

Models*	Capacity	Platform Size	n_{max}
EQM 200/400 -X	400 lb x 0.1 lb (200 kg x 0.05 kg)	31.5" x 27" (80 cm x 68.6 cm)	4000
EQM 400/800 -X	800 lb x 0.2 lb (400 kg x 0.1 kg)	31.5" x 27" (80 cm x 68.6 cm)	4000
EQM 1000/2000 -X	2000 lb x 0.5 lb (1000 kg x 0.2 kg)	37" x 28.75" (94 cm x 73 cm)	5000

*The "X" in the model designation indicates water protection options where "W" represents wash down safe and "A.I." represents a stainless-steel platter.

Semi-automatic zero setting mechanism (push-button)
Automatic zero setting mechanism (AZSM)
Initial zero setting mechanism (IZSM)
Semi-automatic tare (push-button)
Carbon steel platter (standard)
Stainless steel platter (optional)

AC to DC power adapter
Battery power supply
Gross/net weight display
Liquid crystal display (LCD) alphanumeric display
Pound/kilogram unit conversion
Category 1 method of sealing

Options: RS-232 communication port

Printer interface capability

Load Cells:

Model EQM 1000/2000 uses the Tedeo-Huntleigh Model 1250 load cells (Certificate of Conformance Number 89-054A1)

Models EQM 200/400 and EQM 400/800 uses Celtron Model MOC load cells (not NTEP approved)

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.


James Cassidy Jr.

Committee Chair, National Type Evaluation Program Committee
Issued: January 10, 2019

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**Fabricantes de Basculas Torrey, S.A. de C.V.**

Non-Computing Scale / EQM Series

Application: General purpose floor scale.

Identification: A metal identification tag is riveted on the rear of the tower indicator. Additionally, a metal identification tag with identical information is riveted to the scale base and is visible when the platter is removed.

Sealing: The indicator has a Category 1 electronic audit trail with two event counters (calibration and configuration).

To access the calibration counter:

- (1) Turn the scale on
- (2) During the initial countdown, press the following buttons:



, kg/lb, TARE, ZERO, ZERO, ZERO

The tower indicator will display “CA.XXX”, where XXX represents the number of times the scale has been calibrated.

To access the configuration counter:

- (1) Turn the scale on
- (2) During the initial countdown, press the following buttons:



, kg/lb, TARE, ZERO, ZERO, ZERO

The tower indicator will display “CF.XXX”, where XXX represents the number of times the scale has been configured.

Turn the scale off and on to return to the normal weighing mode.

Test Conditions: This certificate supersedes Certificate of Conformance Number 98-007A1 and was issued to recognize a sale of the company to Fabricantes de Equipos para Refrigeracion S.A. de C.V., recognized in the Submitted By: box on page one. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 98-007A1: This Certificate supersedes Certificate of Conformance Number 98-007 and is issued to document variations to the original scale design. NTEP has reviewed the changes and does not consider the variations metrologically significant. The changes are as follows:

- (1) The indicator housing may be manufactured from stainless steel or aluminum
- (2) The rechargeable battery may be housed either in indicator housing or on the base of the scale
- (3) The tower that supports the indicator may be manufactured from either square steel pipe or round steel pipe

Certificate of Conformance Number 98-007: The Models EQM 200/400, EQM 400/800W and EQM 1000/2000A.I. were submitted for evaluation. The emphasis of the evaluation was on the device design, marking requirements, print format, performance, and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were performed. Each device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The devices were also tested with 100 VAC and 130 VAC power supplies. A load of approximately one-half scale capacity was applied to the scales more than 100 000 times. The scales were tested periodically during this period.

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1999. NCWM, Publication 14: Weighing Devices, 1999.

Tested By: S. Chan (CA) and N. Ingram (CA) 98-007



Fabricantes de Basculas Torrey, S.A. de C.V.
Non-Computing Scale / EQM Series

Information Reviewed By: J. Truex (NCWM) 98-007A2

Examples of Device:

EQM 1000/2000

