



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Wheel Load Weighing / Static
Model: MD700X-WIM
 n_{max} : 500
Capacity: 25 000 x 50 lb
Platform: 32 in x 17.5 in
Accuracy Class: IIII
 e_{min} 50 lb

Submitted By:

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Standard Features and Options

- All aluminum construction
- AC voltage (indicator supplied)
- Can be used individually or in pairs.

Options:

- Levelers & Ramps at each end of the weighing element.
- Indicator GEC Model: WI400X (Cabled or Wireless)

Load Cells:

- GEC model: 10220-1 (Class IIII Non-NTEP certified)

Indicator Used:

- GEC Model: WI 300P (NTEP CC No. 94-094)

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.


Brent Gurney
Chairman, NCWM, Inc.


James Cassidy

Committee Chair, National Type Evaluation Program Committee
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General Electrodynamics Corp.

Weighing/Load Receiving Element / MD700X-WIM

Application: For use in law enforcement as a (Class III) Wheel-Load Weigher when interfaced with a NTEP certified and compatible indicating element.

Identification: The required marking information can be located on the left side of the scale adjacent to the handle on a tamper evident label. See picture below.

Sealing: The weighing/load receiving element can be sealed with disc seals installed on the bottom of the device. The seals prevent the device from being opened and changing load cells. See picture below. All metrological functions are sealed thru the indicating element according to its requirements.

Test Conditions: The emphasis of this evaluation was on the device design, operation, marking requirements, and performance. Two Model: MD700X-WIM 25 000 x 50 lb weighing/load receiving elements were interfaced with a GEC Model: WI300P (NTEP CC No. 94-094) indicating element and evaluated in the laboratory. A 22.5 in x 13 in x 1 in steel plate, was provided by the manufacturer to simulate pneumatic tire loads and was used in the evaluation. Several increasing tests were performed with certified test weights and with a Morehouse proving ring. The device was tested out of level up to and including 3^o/ 5% rise over run in four directions with 20 000 lb of certified test weight. The devices were tested singly and in pairs using a proving ring up to 25 000 lbf (single) and 40 000 lbf (pairs). After laboratory performance testing, the devices were sealed for permanence testing. When all of the permanence testing requirements were met, increase testing was repeated with 20 000 lb of certified test weights and a Morehouse proving ring. This certificate is based upon temperature and permanence data provided by the manufacturer and test data collected at ambient temperature in the Ohio NTEP laboratory.

NOTE: This certificate is issued based upon influence factor test data provided by the manufacturer and test data collected at ambient temperature in the NTEP laboratory as a provisional NTEP Certificate of Conformance (CC). This evaluation is based on the current draft checklist, procedures and technical policy contained in NCWM Publication 14 for this Device type. When work on the NCWM Publication 14 section for this device is completed, the test report and this NTEP CC will be reviewed. If all current requirements have been met by this evaluation, the provisional status will be removed.

Evaluated By: J. Gibson (OH) 19-043P

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14 Measuring Devices*, 2019 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) 19-043P



General Electrodynamics Corp.
Weighing/Load Receiving Element / MD700X-WIM

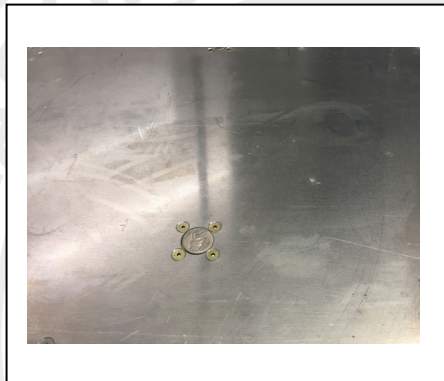
Example(s) of Device:



MD700X-WIM



Identification



Sealing Method

