



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Tension, Compression
Model: 101xx Series
 n_{max} : 4 500, Single/Multiple Cell, Class III, 100 to 500 lb
 n_{max} : 5 500, Single/Multiple Cell, Class III, 1000 to 20 000 lb
Capacity: 100 to 20 000 lb
Accuracy Class: III

Submitted By:

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Standard Features and Options

Model 101xxxx, where the first “xx” in the model designation may be BH, BS, NH, NS and the last “xx” in the model designation may be SE, LE or GS.

- Nominal output: 2.0 and 3.0 mV/V
- Steel Stainless and Alloy Steel material
- 4 wire design
- Minimum Dead Load: 0 lb

| Models | Capacity | v_{min} Class III Single cell | n_{max} Class III Single cell |
|----------------------------------------|-----------|------------------------------------|------------------------------------|
| 101xx | 100 lb | 0.0067 lb | 4500 |
| Load Cells Tested: 200 kg & 2000 kg | 250 lb | 0.017 lb | 4500 |
| | 500 lb | 0.03 lb | 4500 |
| | 1000 lb | 0.07 lb | 5500 |
| | 2000 lb | 0.14 lb | 5500 |
| | 3000 lb | 0.21 lb | 5500 |
| | 5000 lb | 0.36 lb | 5500 |
| | 10 000 lb | 0.70 lb | 5500 |
| | 15 000 lb | 1.07 lb | 5500 |
| | 20 000 lb | 1.43 lb | 5500 |

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 *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.

Ivan Hankins
Chairman, NCWM, Inc.

Hal Prince
Chair, NTEP Committee
Issued: August 31, 2021

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Anyload LLC
Load Cell / 101xx Series

Application: The load cells may be used in Class III scales for single cell and multiple cell applications consistent with the model designations, number of scale divisions, and parameters specified in this certificate. Load cells of a given accuracy class may be used in applications with lower accuracy class requirements provided the number of scale divisions, the v_{\min} value, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions (n_{\max}) and with greater v_{\min} values than those listed on the certificate. However, the load cells must be marked with the appropriate n_{\max} and v_{\min} for which the load cell may be used.

Identification: A pressure sensitive identification label located on the cell, states manufacturer name, model, serial number, rated capacity, class and v_{\min} . Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: This certificate supersedes certificate of conformance 12-094A2 and is issued to update company address and add the SE, LE and GS suffix to the model 101xx Series. There are no metrological differences between these models and the ones previously listed. No additional testing was necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 12-094A2: This certificate supersedes Certificate of Conformance 12-094A1 and is issued to make a correction in the For: box changing Single Cell to Single/Multiple Cell to be consistent with application. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 12-094A1: This Certificate supersedes Certificate of Conformance Number 12-094 and was issued to adjust the v_{\min} values and increase the n_{\max} values for the load cells. The NMI laboratory re-calculated the values shown on the initial test report and issued revisions. The test data was accepted by NTEP in accordance with the OIML DoMC Mutual Acceptance Arrangement, signed by the NCWM as a utilizing participant for load cell testing. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 12-094: A Model 101BH, 200 kg and 2000 kg capacity load cells were tested by the NMI Certain B.V. at The Netherlands facility. Testing was conducted in accordance with the OIML DoMC Mutual Acceptance Arrangement, signed by the NCWM as a utilizing participant for load cell testing. Testing was conducted using deadweights as the reference standard. The load cells were tested over a temperature range of -10 °C to 40 °C with tests run on each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test to determine sensitivity of the load cell design to changes in barometric pressure was conducted. The data were analyzed for single load cell applications. OIML R60 selection criteria were used to determine cells tested.

Evaluated By: C. Bontenbal, A. Tjoa (NMI) 12-094; M.M.J. Meijer, E. van der Grinten (NMI) 12-094A1; M. Manheim (NCWM) 12-094A2, 12-094A3

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2016 Edition. *NCWM Publication 14 Weighing Devices*, 2016 Edition.

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

Information Reviewed By: J. Truex (NCWM) 12-094, 12-094A1; D. Flocken (NCWM) 12-094A2, 12-094A3



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Example(s) of Device:

