



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Double-Ended Shear Beam
Model: 102TH and 102RH Series
 n_{max} : 10 000, Class III L, Multiple Cell
Capacity: 25 000 to 125 000 lb
Accuracy Class: III L

Submitted By:

Anyload LLC
12-16 Littell Road, Units 8B & 8C
East Hanover, NJ 07936
Tel: 855-269-5623
Fax: 866-612-9088
Contact: Gary Gui
Email: gary.gui@anyload.com
Website: www.anyload.com

Standard Features and Options

- Model 102THxx series and Model 102RHxx series where the xx in the model designation may be SE or LE.
- The specific load cell capacities, v_{min} values, and minimum dead loads covered by this Certificate are listed in the table below.
- Nominal output: 3.0 mV/V
- Alloy Steel
- 4 wire design

| Model | Capacity | v_{min} Class III L Multiple cell | Minimum Dead Load |
|----------------|------------|--|----------------------|
| 102TH* & 102RH | 25 000 lb | 1.67 lb | 0 lb |
| 102TH & 102RH | 40 000 lb | 2.67 lb | 0 lb |
| 102TH & 102RH | 50 000 lb | 3.33 lb | 0 lb |
| 102TH & 102RH | 60 000 lb | 4.0 lb | 0 lb |
| 102TH & 102RH | 65 000 lb | 4.3 lb | 0 lb |
| 102TH & 102RH | 75 000 lb | 5.0 lb | 0 lb |
| 102TH & 102RH | 100 000 lb | 6.67 lb | 0 lb |
| 102TH & 102RH | 125 000 lb | 8.33 lb | 0 lb |

*Load Cell Tested

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

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Anyload LLC

Load Cell / 102TH and 102RH Series

Application: The load cells may be used in Class III scales for 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 number, serial number, rated capacity, class, v_{\min} and CC number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: This certificate supersedes certificate of conformance 11-060A1 and is issued to update company name, address, and add the SE and LE suffix to the model 102TH and 102RH 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 11-060A1: This certificate supersedes Certificate of Conformance Number 11-060 and was issued to include the model 102RH series of cells and a 65 000 lb capacity cell. The 102RH series was evaluated by the NMI Certain B.V. at The Netherlands facility in accordance with the OIML DoMC Mutual Acceptance Arrangement, signed by the NCWM as a utilizing participant for load cell testing. The data were analyzed for multiple load cell applications. OIML R60 selection criteria was used to determine cells tested. Previous test conditions are listed below for reference.

Certificate of Conformance Number 11-060: A Model 102TH (25 000 lb capacity) load cell was 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 multiple load cell applications. OIML R60 selection criteria was used to determine cells tested.

Evaluated By: C. Bontenbal, R. Scholten (NMI) 11-060; C. Oosterman (NMI) 11-060A1; M. Manheim (NCWM) 11-060A2

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2012 Edition. *NCWM Publication 14: Weighing Devices*, 2012 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) 11-060, 11-060A1; D. Flocken (NCWM) 11-060A2

Example(s) of Device:



Model 102TH



Model 102RH