



NATIONAL TYPE EVALUATION PROGRAM

*Certificate of Conformance*  
*for Weighing and Measuring Devices*

**For:**

Load Cell  
Double Ended Shear Beam  
Model: 102DH Series  
 $n_{max}$ : 10 000, Class III L, Multiple Cell  
Capacity: 10 000 to 100 000 lb  
Accuracy Class: III L

**Submitted By:**

Anyload LLC  
12-16 Littell Road, Unit 8B/8C  
East Hanover, NJ 07936  
Tel: 855-269-5623  
Fax: 866-612-9088  
Contact: Gary Gui  
Email: [gary.gui@anyload.com](mailto:gary.gui@anyload.com)  
Web site: [www.anyload.com](http://www.anyload.com)

**Standard Features and Options**

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, n= 10 000	Minimum Dead Load
102DH	10 000 lb	0.67 lb	0 lb
102DH*	20 000 lb	1.33 lb	0 lb
102DH	30 000 lb	2.00 lb	0 lb
102DH	40 000 lb	2.67 lb	0 lb
102DH	50 000 lb	3.33 lb	0 lb
102DH	60 000 lb	4.00 lb	0 lb
102DH	75 000 lb	5.00 lb	0 lb
102DH	100 000 lb	6.67 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 "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.

Ivan Hankins  
Chair, NCWM, Inc.

Hal Prince  
Chair, NTEP Committee  
Issued: April 29, 2022

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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## Anyload LLC

### Load Cell / 102DH Series

**Application:** The load cells may be used in Class III L 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 number 16-092 and is issued to add additional capacities. A 10 000 lb and 30 000 lb capacity cell added per NTEP policy and manufacturer's information. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 11-067A1:** This certificate supersedes Certificate of Conformance Number 11-067 and was issued to indicate transfer of the NTEP Certificate of Conformance from ANYLOAD Transducer Co. Ltd. to Anyload LLC. Previous test conditions and documentation provided by the company were reviewed by NTEP. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 11-067:** A Model 102DH (20 000 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) 11-067; M. Manheim (NCWM) 11-067A2

**Type Evaluation Criteria Used:** *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2018 Edition. *NCWM Publication 14: Weighing Devices*, 2018 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) 11-067, 11-067A1; D. Flocken (NCWM) 11-067A2

#### **Example of Device:**

