



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Load Cell  
Single-Ended Shear Beam  
Model: 563YH and 563YS Series  
 $n_{\max}$ : 5000 to 10 000  
Capacity: 250 lb to 20 000 lb  
Accuracy Class: III

**Submitted By:**

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**Standard Features and Options**

- Model 563YHxxxx, where the “xxxx” may be SE, LE, FM, RT, TH, XH, HY, MS, FK, WA, WATH, 23 or 43
- Model 563YSxx, where the “xx” may be: 30, SB, MT, or RS
- Specific load cell capacities,  $n_{\max}$  and  $v_{\min}$  values are listed in the table on Page 2
- Nominal output: 2.0 and 3.0 mV/V
- Stainless Steel and Alloy Steel material
- 4 and 6 wire and design
- Minimum Dead Load: 0 lb

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  
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### Load Cell / 563YH and 563YS Series

**Application:** The load cells may be used in Class III scales for single 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.

#### **Specific Capacities, $n_{\max}$ and $v_{\min}$ Values:**

Capacity	$v_{\min}$ , Single Cell Class III	$v_{\min}$ , Multiple Cell Class III	$n_{\max}$ , Single Cell Class III	$n_{\max}$ , Multiple Cell Class III
250 lb	0.010 lb	0.010 lb	5000	9500
500 lb	0.021 lb	0.021 lb	5000	9500
750 lb	0.031 lb	0.031 lb	5000	9500
1000 lb*	0.042 lb	0.042 lb	5000	9500
2500 lb	0.105 lb	0.105 lb	5000	9500
4000 lb	0.167 lb	0.167 lb	6000	10 000
5000 lb*	0.21 lb	0.21 lb	6000	10 000
10 000 lb	0.42 lb	0.42 lb	6000	10 000
15 000 lb	0.66 lb	0.66 lb	6000	10 000
20 000 lb	0.84 lb	0.84 lb	6000	10 000

\*Load Cells Tested

**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 16-090A1 and is issued to update company address and add the SE and LE, 23 suffix to the model 563YH 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 referenced.

**Certificate of Conformance Number 16-090A1:** This certificate supersedes certificate of conformance 16-090 and is issued to add the WA and WATH suffix to the model 563YH Series. There are no metrological differences between these models and the ones previously listed. No additional testing was necessary.

**Certificate of Conformance Number 16-090:** The purpose of this Certificate of Conformance is to cover the 563YH and 563YS Series load cells. Additional testing has been done by the NMi Certin B.V. at The Netherlands facility. Multiple tests have been conducted on 500 kg and 3000 kg capacity cells, leading to lower  $v_{\min}$  values, and recognizing multiple cells use on the certificate. 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 cell was tested over a temperature range of -10 °C to 40 °C with tests run 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 and multiple load cell applications. OIML R60 selection criteria were used to determine cells tested.

**Evaluated By:** C. Bontenbal, R. Scholten, E. van der Grinten, M.M.J. Meijer (NMi); M. Manheim (NCWM) 16-090A2

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

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



### Anyload LLC

Load Cell / 563YH and 563YS Series

**Information Reviewed By:** J. Truex (NCWM) 16-090; D. Flocken (NCWM) 16-090A1, 16-090A2

**Examples of Device:**



**Model: 563YS**



**Model: 563YH**