



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Bending Beam
Model: 563RH and 563RS Series
 n_{max} : 4500 to 6000 / Single Cell (See Table Page 2)
10 000 / Multiple Cell (See Table Page 2)
Capacity: 5 kg to 500 kg
Accuracy Class: III

***Submitted By: Contact Info. Updated October 2024**

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Standard Features and Options

- Specific load cell capacities, n_{max} and v_{min} values are listed in the table on Page 2
- Nominal output: 2.0 mV/V
- Stainless Steel (563RS) and Alloy Steel (563RH) material
- 4 wire 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 "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.

Kristin Macey
Chairman, NCWM, Inc.

Jerry Buendel
Chairman, National Type Evaluation Program Committee
Issued: January 24, 2017

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Anyload LLC

Load Cell / 563RH and 563RS 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}	n_{\max}	n_{\max}
	Single Cell & Multiple Cell Class III	Single Cell Class III	Multiple Cell Class III
5kg	0.000167 kg	6000	10 000
10 kg*	0.00033 kg	6000	10 000
20 kg	0.00067 kg	6000	10 000
50 kg	0.00167 kg	6000	10 000
100 kg*	0.0033 kg	4500	10 000
200 kg	0.00667 kg	4500	10 000
350 kg	0.01167 kg	4500	10 000
500 kg	0.01667 kg	4500	10 000

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: The purpose of this Certificate of Conformance is to cover the 563RH and 563RS Series load cells. Ad 10 kg and 100 kg capacity cell was tested by the NMi Certin 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 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: E. van der Grinten, M.M.J. Meijer (NMi)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2017. 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.

Information Reviewed By: J. Truex (NCWM)

Example of Device:



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Load Cell / 563RH and 563RS Series

