NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Single-Ended Shear Beam
Model: 563YH & 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 563YHxx, where the xx may be: FM, RT, TH, XH, HY, MS, FK 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 ºC to 40 ºC (14 ºF to 104 ºF)

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: October 10, 2016

Anyload LLC

Load Cell / 563YH & 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: 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)

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.

Information Reviewed By: J. Truex (NCWM)

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Load Cell / 563YH & 563YS Series

Examples of Device:

563YS

563YH