NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Single Ended Shear Beam
Model: 563YH Series
n_{max}: 3 500, Class III, Single Cell
6 000, Class III, Multiple Cell
Capacity: 1 000 to 10 000 lb
Accuracy Class: III

Submitted By:
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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
- Minimum Dead Load: 0 lb

Models	Capacity *load cells tested	v_{min} Class III Single cell, n= 3500	v_{min} Class III Multiple cell, n= 6000
563YH, 563YHFM, 563YHHY, 563YHRT, 563YHTH, 563YHXH	1000 lb*	0.067 lb	0.067 lb
	2500 lb	0.167 lb	0.167 lb
	4000 lb	0.267 lb	0.267 lb
	5000 lb*	0.333 lb	0.333 lb
	10 000 lb	0.670 lb	0.670 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.

Kurt Floren
Chairman, NCWM, Inc.

Tim Tyson
Chairman, National Type Evaluation Program Committee

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Anyload Transducer Co., Ltd.

Load Cell / 563YH 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.

Identification: A pressure sensitive identification label located on the cell, states manufacturer name, serial number, rated capacity, class and v_{min}. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: A Model 563YH, 500 kg (1000 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 ^{o}C to 40 ^{o}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 single and multiple load cell applications. OIML R60 selection criteria were used to determine cells tested.

Note: Two Model 563YH, 5000 lb capacities load cells were previously tested by NIST, see NTEP Certificate of Conformance 08-054. That data was considered in the issuance of this certificate

Evaluated By: C. Bontenbal, R. Scholten (NMi)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2011. NCWM, Publication 14: Weighing Devices, 2011.

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)

Examples of Device: