NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Tension & Compression
Model:110xx Series
n_{max}: 3000, Class III, Single Cell (500 kg to 3000 kg)
5000, Class III, Multiple Cell (500 kg to 3000 kg)
6000, Class III, Single Cell and Multiple Cell (5000 kg to 50 000 kg)
Capacity: 500 kg to 50 000 kg
Accuracy Class: III

Submitted By:
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Standard Features and Options

- Model 110xx, where the xx in the model designation may be BH, BS, FH, FS, NH, NS, KH, KS, WH, WS, YH, YS, QH, QS, PH, PS, HH, ZH, ZS, EH, ES, MH, MS, JH, JS, LH, LS, RH, RS, SH, SS, TH, TS, GH, GS, UH, US
- The specific load cell capacities, v_{min} values, and minimum dead loads covered by this Certificate are listed in the table on Page 2
- Nominal output: 2.0 and 3.0 mV/V
- Alloy Steel and Stainless Steel material
- 4 wire design
- Minimum Dead Load: 0 kg

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.

John Gaccione
Chairman, NCWM, Inc.

Stephen Benjamin
Chairman, National Type Evaluation Program Committee

Issued: March 27, 2014

Anyload LLC

Load Cell / 110xx Series

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

Models	Capacity *load cell tested	V_{min} Class III Single cell, n= 3000 Multiple cell, n= 5000	V_{min} Class III Single cell, n= 6000 Multiple cell, n= 6000
110xx	500 kg	0.033 kg	
	1000 kg	0.067 kg	
	2000 kg	0.133 kg	
	3000 kg	0.2 kg	
	5000 kg		0.35 kg
	7500 kg		0.53 kg
	10 000 kg*		0.7 kg
	15000 kg*		1.05 kg
	20 000 kg		1.4 kg
	30 000 kg		2.1 kg
*Load cell tested	50 000 kg		3.5 kg
Model 110xx, where the xx in the model designation may be BH, BS, FH, FS, NH, NS, KH, KS, WH, WS, YH, YS, QH, QS, PH, PS, HH, ZH, ZS, EH, ES, MH, MS, JH, JS, LH, LS, RH, RS, SH, SS, TH, TS, GH, GS, LLH, LLS			

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 Number 12-081 and was issued to increase the size of the series and recognize the parameters associated with the additional testing. One Model 110BH-1t, 1000 kg capacity 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 cell was 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. Previous test conditions are listed below for reference.

Certificate of Conformance Number 12-082: Two Model 110BH, 10 000 kg and 15 000 kg capacity load cells were 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

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pressure test to determine sensitivity of the load cell design to changes in barometric pressure was conducted. The data were analyzed for single load cell applications. OIML R60 selection criteria were used to determine cells tested.

Evaluated By: E. van der Grinten, R. Scholten (NMi) 12-082; M.M.J. Meijer, J. Kornjnenburg (NMi) 12-082A1

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2014. NCWM, Publication 14: Weighing Devices, 2013.

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) 12-082, 12-082A1

Examples of Device: