NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Compression
Model: 108DA & 108DH Series
n_{max}: 3000 to 6000, Class III, Single Cell
Capacity: 10 kg to 2500 kg
Accuracy Class: III

Submitted By:
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Standard Features and Options

- Specific load cell capacities and v_{min} values are listed in the table below.
- Nominal output: 2.0 mV/V
- Aluminum material (Model 108DA), or Alloy steel material (Model 108DH)
- 4 wire design
- Minimum Dead Load: 0 kg

Models	Capacity (kg)	v_{min} (kg) Class III	n_{max}
108DH & 108DA Series *Load cell tested	10	0.00077	3000
	20	0.0015	3000
	50	0.0038	3000
	100	0.0067	6000
	300	0.020	6000
	500	0.033	6000
	1000	0.067	6000
	1500	0.100	6000
	2000	0.133	6000
	2500	0.167	6000

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.

James Cassidy
Chairman, NCWM, Inc.

Kristin Macey
Chairman, National Type Evaluation Program Committee

Issued: August 28, 2017

Anyload LLC

Load Cell / 108DA & 108DH 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, model, serial number, rated capacity, class, NTEP certificate number, n_{max} and v_{min}. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: A model 108DH (50 kg) and 108DA (500 kg) 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 ºC to 40 ºC 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 load cell applications. OIML R60 selection criteria were used to determine cells tested.

Evaluated By: E. van der Grinten, M.M.J. Meijer, S.J. Koeman (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, 2017.

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: