



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

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

**\*Submitted By: Contact Info. Updated October 2021**

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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 °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.

James Cassidy  
Chairman, NCWM, Inc.

Kristin Macey  
Chairman, National Type Evaluation Program Committee  
Issued: August 28, 2017

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## Anyload LLC

### Load Cell / 108DA and 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 °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 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:

