



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
 Shear Beam
 Model: B8D-xx Series
 n_{max} : 5000, Class III, Single and Multiple Cell
 10 000, Class III L, Multiple Cell
 Capacity: 200 kg to 5000 kg (500 lb to 10 000 lb)
 Accuracy Class: III / III L

Submitted By:

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Standard Features and Options

The specific load cell capacities, v_{min} , n_{max} and minimum dead load values covered by this Certificate are listed in page two. Load cells tested are indicated by an *.

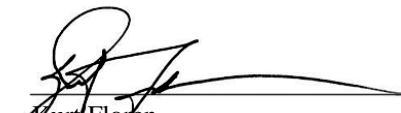
- Nominal Output: 2.0 mV/V
- Stainless Steel Material
- 4 Wire Design


Model	Capacity (kg)	Capacity (lb)	v_{min} Class III Single/Multiple cell (kg/lb)	v_{min} Class III L Multiple cell (kg/lb)	Minimum Dead Load (kg & lb)
B8D-xx	200 *	500	0.02/0.05	0.02/0.03	0.0
B8D-xx	500	1000	0.05/0.10	0.03/0.05	0.0
B8D-xx	1000	2500	0.10/0.25	0.05/0.13	0.0
B8D-xx	--	4000	--/0.40	--/0.20	0.0
B8D-xx & B8D-xx-SE	2000	5000	0.20/0.50	0.20/0.25	0.0
B8D-xx	5000	10 000	0.50/1.00	0.25/0.50	0.0

*load cells tested: 200kg

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.


 Kurt Floren
 Chairman, NCWM, Inc.


 Jim Tyson
 Chairman, National Type Evaluation Program Committee
 Issued: March 6, 2012

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**Zemic (USA), Inc.**

Load Cell / B8D-xx Series

Application: The load cells may be used in Class III or Class III L 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 number, serial number, rated capacity and class. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: The 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°C to 40°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 was performed. The data were analyzed for single and multiple load cell applications. OIML R60 selection criteria was used to determine cells tested.

Evaluated By: A.C. Pauwels (NMI), R. Scholten (NMI)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2012. 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)

Example of Device: