



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Load Cell  
Single-point Beam  
Model: BM6G-xx Series  
 $n_{max}$ : 6000, Class III, Single & Multiple Cell  
10 000, Class IIIIL, Single & Multiple Cell  
Capacity: 20 kg to 500 kg (50 lb to 1000 lb)  
Accuracy Class: III/IIIIL

**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

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  
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**Zemic (USA), Inc.**

Load Cell / BM6G-xx Series

Model	Capacity (kg)	V <sub>min</sub> Class III Single and Multiple cell (kg)	V <sub>min</sub> Class III L Single and Multiple cell (kg)	Minimum Dead Load (kg)
BM6G-xx	20*	0.0010	0.0010	0.0
BM6G -xx	50	0.0025	0.0025	0.0
BM6G -xx	75	0.0037	0.0037	0.0
BM6G -xx	100	0.0050	0.0050	0.0
BM6G-xx	150*	0.0075	0.0075	0.0
BM6G -xx	200	0.010	0.010	0.0
BM6G-xx	300	0.015	0.015	0.0
BM6G -xx	400	0.020	0.020	0.0
BM6G -xx	500	0.025	0.025	0.0
Model	Capacity (lb)	V <sub>min</sub> Class III Single and Multiple cell (lb)	V <sub>min</sub> Class III L Single and Multiple cell (lb)	Minimum Dead Load (lb)
BM6G-xx	50	0.0025	0.0025	0.0
BM6G -xx	100	0.0050	0.0050	0.0
BM6G -xx	150	0.0075	0.0075	0.0
BM6G -xx	200	0.0100	0.0100	0.0
BM6G-xx	250	0.0125	0.0125	0.0
BM6G -xx	300	0.0150	0.0150	0.0
BM6G-xx	500	0.0250	0.0250	0.0
BM6G -xx	750	0.0375	0.0375	0.0
BM6G -xx	1000	0.0500	0.0500	0.0

\*Load cells tested

**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<sub>min</sub> value, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer divisions (n<sub>max</sub>) and with greater v<sub>min</sub> values than those listed on the certificate. However, the load cells must be marked with the appropriate n<sub>max</sub> and v<sub>min</sub> 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, V<sub>min</sub>, class, and CC number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

**Test Conditions:** Two 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 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.



**Zemic (USA), Inc.**

Load Cell / BM6G-xx Series

**Information Reviewed By:** J. Truex (NCWM)

**Example of Device:**

