



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Bending Beam
Model: LAB-xxxx-Bx-xx-xx
 n_{max} : 5000, Single Cell
Capacity: 10 kg
Accuracy Class: III

Submitted By:
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Standard Features and Options

- The specific load cells covered by this Certificate are identified in the table below.
- Nominal Output: 2 mV/V
- Excitation Voltage: 5-12 VDC Minimum dead load: 0 kg
- Counterforce Material: Aluminum
- 4 Wire Design

Load Cell Parameters:

Model	Capacity	n_{max}	v_{min}	Minimum Dead Load
LAB-xxxx-Bx-xx-xx*	10 kg	5000	0.0007 kg	0 kg

*Load cell tested

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.

Jerry Buendel
Chairman, NCWM, Inc.

Ronald Hayes
Chairman, National Type Evaluation Program Committee
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Xiamen Loadcell Technology Co. Ltd (LCT)

Load Cell / LAB-xxxx-Bx-xx-xx Series

Application: The load cells may be used in Class III Scales for single 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} values, and temperature range are suitable for the application. The manufacturer may market the load cells with fewer scale divisions (n_{\max}) and with larger 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 badge containing the manufacturer, model designation, and serial number, accuracy class, capacity, n_{\max} , v_{\min} and certificate number is located on the load cell. All other required information, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

Test Conditions: This certificate supersedes Certificate of Conformance number 13-113 and was issued without additional testing to reactivate Certificate of Conformance number 13-113 without lapse. Previous test conditions are listed below for reference.

Certificate of Conformance Number 13-113: A Model LAB-xxxx-Bx-xx-xx (10 kg) 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 $-10\text{ }^{\circ}\text{C}$ to $40\text{ }^{\circ}\text{C}$ 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 waived due to the insensitivity of the load cell design to changes in barometric pressure. The data were analyzed for single load cell applications. OIML R60 selection criteria was used to determine cells tested.

Evaluated By: M.M.J. Meijer (NMi), R. Scholten (NMi) 13-113

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2015. NCWM, Publication 14: Weighing Devices, 2015.

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) 13-113, 13-113A1

Example of Device:

