

NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance for Weighing and Measuring Devices

For:

Load Cell

Beam, Single Point

Model: WL 1241, WL 1243 & WL 1245 Series n_{max}: 6000, Class III, Single Cell & Multiple Cell

Capacity: 50 kg to 500 kg Accuracy Class: III **Submitted By:**

Acecells Instruments Ltd.

Jiaochuan Street, Zhenhai District

Ningbo, Zhejiang China 315100

Tel: +86-57488015609 Fax: +86-57488015609

Contact: Phillis

Email:sales@acecellschina.com
Web site:www.acecellschina.com

Standard Features and Options

• Model WL 1241, WL 1243 & WL 1245 Series, specific load cell capacities and v_{min} values are listed in the table below.

• Nominal output: 2.2 mV/V

• Aluminum material

• 4 wire design

• Minimum Dead Load: 0 kg

Models	Capacity	V _{min} Class III	V _{min} Class III	n _{max}
WL 1241		Single Cell	Multiple Cell	
WL 1243	50 kg	0.0033 kg	0.0033 kg	6000
WL 1245	60 kg*	0.004 kg	0.004 kg	6000
	100 kg	0.0066 kg	0.0066 kg	6000
*Load Cell Tested	150 kg	0.010 kg	0.010 kg	6000
	200 kg	0.013 kg	0.013 kg	6000
	250 kg	0.016 kg	0.016 kg	6000
	300 kg	0.020 kg	0.020 kg	6000
	500 kg	0.033 kg	0.033 kg	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.

Jerry Buendel Chairman, NCWM, Inc. Ronald Hayes Chairman, National Type Evaluation Program Committee

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1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Acecells Instruments Ltd.

Load Cell / WL 1241, WL 1243 & WL 1245 Series

Application: The load cells may be used in Class III scales for single cell 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.

<u>Test Conditions</u>: A model WL 1241, 60kg 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 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, R. Scholten (NMi)

<u>Type Evaluation Criteria Used:</u> NIST, <u>Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2016. NCWM, Publication 14: Weighing Devices, 2016.</u>

<u>Conclusion</u>: 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:



WL 1241 WL 1243 WL 1245