



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Bending Beam
Model: RLPWM 16
 $n_{\max}$ Single: 5 000
Capacity: (see below)
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

Rice Lake Weighing Systems
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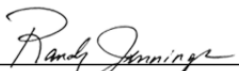
Standard Features and Options**Standard Features:**

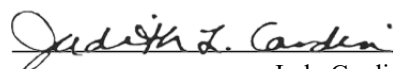
- Nominal Output: 2mV/V
- Wire Configuration: 6 wire only
- Counterforce Construction: Aluminum
- Input Bridge Resistance: 350 Ohms (Nominal)
- Nominal Excitation: 10 v

Capacity	$v_{\min}$ Single Cell	Minimum Dead Load
30 kg*	0.0042	0
50 kg	0.007	0
75 kg	0.011	0
100 kg	0.014	0
150 kg	0.021	0
200 kg	0.028	0
250 kg*	0.035	0
300 kg	0.042	0
500 kg	0.070	0
635 kg	0.089	0
660 kg	0.092	0

* Load Cells Submitted for Evaluation

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.


Randy Jennings
Chairman, NCWM, Inc.


Judith Cardin
Chairman, National Type Evaluation Program Committee
Issued: February 12, 2007

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Rice Lake Weighing Systems

Load Cell / RLPWM 16

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 cell with fewer 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 is located on the load cell. All other required information must be on an accompanying document including the serial number of the load cell.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. This certificate supersedes Certificate of Conformance Number 05-112 and is issued to add load cell capacities of 30 kg and 50 kg. Two 30 kg capacity load cells were tested in a 6-wire configuration using dead weights as the reference standard. The data was analyzed for single load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Three tests were 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. Previous test conditions are listed below for reference.

Certificate of Conformance Number 05-112: This certificate is issued based upon the following tests and upon information provided by the manufacturer. Two 250 kg capacity load cells were tested in a 6-wire configuration at the NIST Force Group using dead weights as the reference standard. The data were analyzed for single load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Three tests were 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.

Evaluated By: T. Bartel (NIST) 05-112; J. Latham (CA) S. Boyd (CA) 05-112A1

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2006. NCWM, Publication 14: Weighing Devices, 2006.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 05-112, 05-112A1

Example of Device:



Model RLPWM 16,500 kg