



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:

Load Cell
Single Column Compression Canister
Model: RL8C2P1-XXX* and RL8C2P1SST-XXX*
 n_{max} Multiple Cells: 10 000
Capacity: 50 000 to 200 000 lb
Accuracy Class: III L

Submitted By:

Rice Lake Weighing Systems
230 W. Coleman St.
Rice Lake, WI 54868
Tel: 715-234-9171
Fax: 715-234-6967
Contact: Paul A. Lewis, Sr.
Email: plewis@ricelake.com
Web site: www.ricelake.com

Standard Features and Options

Standard Features:

- Nominal Output: 2 mV/V
- Excitation Voltage: 10 V dc Nominal
- 4 Wire Design
- Element – Alloy Steel

*The specific load cells covered by this certificate are identified by the load cell capacities. The XXX of the model designation represents the load cell capacity.

Capacity	v_{min} (lb)	Minimum Dead Load (lb)
50 000	1.6	1 000
100 000	3.3	2 000
200 000	6.6	4 000

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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Chairman, National Type Evaluation Program Committee
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1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Rice Lake Weighing Systems

Load Cell / RL8C2P1-XXX and RL8C2P1SST-XXX

Application: The load cells may be used in Class III L scales for multiple cell applications consistent with the model designations 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 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 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 92-218A1 and is issued to editorially correct the typographical error of a model designation shown in the “For” box on Page 1. No additional testing is required. Previous test conditions are listed below for reference.

Certificate of Conformance Number 92-218A1: This certificate is based on the following tests and information provided by the manufacturer. The purpose of this update is to add an additional model designation and correct contact information. No additional test is required.

Certificate of Conformance Number 92-218: Two 100,000_lb capacity load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for multiple load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C. Three increasing/decreasing load 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: NIST Force Group, NIST Office of Weights and Measures 92-218

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2000. NCWM, Publication 14: Weighing Devices, 2000.

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

Information Reviewed By: R. Whipple (NIST) 92-218; S. Patoray (NCWM) 92-218A1; J. Truex (NCWM) 92-218A2

Example of Device:

