



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Single Point
Model: RLPC6 Series*
 $n_{\max}$ Single Cell: 5 000
Capacity: 10 kg to 200 kg
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

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Standard Features and Options

*The specific capacities, $v_{\min}$ values, and minimum dead loads of load cells covered by this certificate are listed in the table on Page 2.

The RLPC6 Series is identified by the model designation RLPC6 followed by a suffix, which represents the load cell capacity.

Minimum Dead Load:

- kg

Material:

- Stainless steel

Cable:

- 4-wire design

Nominal Input Impedance:

- 1000 ohms

Nominal Output:

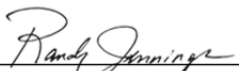
- 2 mV/V

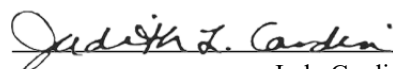
Excitation Voltage:

- 5.0 volt (minimum) to 15 volt (maximum) AC/DC

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.


Randy Jennings
Chairman, NCWM, Inc.


Judith Cardin
Chairman, National Type Evaluation Program Committee
Issued: January 16, 2006

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**Rice Lake Weighing Systems**

Load Cell / RLPC6 Series

Application: The load cells may be used in Class III scales for both 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 $v_{\min}$ 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.

Load Cell Parameters:

Model	Capacity (kg)	$v_{\min}$ (g)
RLPC6-10kg	10	0.5
RLPC6-20kg*	20	1.0
RLPC6-50kg	50	2.0
RLPC6-100kg	100	5.0
RLPC6-200kg	200	10.0

*Load Cell Tested

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 is issued based upon the following tests and upon information provided by the manufacturer. Test data was analyzed for the 20kg and 100kg load cells submitted. Two 20kg and two 100kg load cells were tested 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. Three tests were run 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: G. Castro (CA), B. Carbajal (CA)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2005. NCWM, Publication 14: Weighing Devices, 2005.

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

Information Reviewed By: S. Patoray, L. Bernetich (NCWM)