



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Beam
Model: RL260FD
 $n_{\max}$: 3000, Single Cell
Capacity: 5 kg to 200 kg (10 lb to 400 lb)
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

Rice Lake Weighing Systems
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Standard Features and Options

- Nominal Output: 2 mV/V
- 4-wire and 6-wire Design
- Material: Aluminum & Alloy Steel
- Minimum dead load: 0 kg / 0 lb
- Load Cell Parameters: *capacity evaluated

Capacity (kg)	Capacity (lb)	Single Cell / Class III $n_{\max}$ 3000 $v_{\min}$ (kg)	Single Cell / Class III $n_{\max}$ 3000 $v_{\min}$ (lb)
5	10	0.0006	0.0011
7	14	0.0008	0.0016
7.5	15	0.0009	0.0017
10	20	0.0011	0.0023
15	30	0.0017	0.0034
20*	50	0.0023	0.0057
30	60	0.0034	0.0066
35	75	0.0040	0.0085
50	100	0.0057	0.011
75*	150	0.0085	0.017
90	200	0.010	0.022
120	250	0.013	0.028
200	400	0.022	0.045

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.

Craig VanBuren
Chairman, NCWM, Inc.

Stephen Benjamin
Chair, NTEP Committee
Issued: July 14, 2020

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**Rice Lake Weighing Systems**

Load Cell / RL260FD Series

Application: The load cells may be used in Class III, 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 $v_{\min}$ 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 and serial number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. A 20 kg and two 75 kg capacity load cells were tested at NIST 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. Tests were run on the cells at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test was waived as they are not sensitive to barometric pressure changes. NCWM Publication 14 selection criteria were used to determine cells tested

Evaluated By: K. Chesnutwood (NIST Mass and Force Group)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Measuring Devices*, 2017 Edition.

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

Information Reviewed By: D. Flocken (NCWM)

Example(s) of Device:

