



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Double-Ended Shear Beam
Model: RL75223A-Z Series
 $n_{\max}$ Multiple Cell: 10 000
Capacity: 20 000 lb to 200 000 lb
Accuracy Class: III L

Submitted By: Contact Info. Updated November 2022

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Standard Features and Options

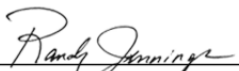
*The specific capacities, $v_{\min}$ values, and minimum dead loads of load cells covered by this Certificate are listed in the table on Page 2 and are identified by the model designation RL75223A-Z, where the A character when represented by an "A" indicates a load cell constructed of alloy steel or "AS" denotes a load cell constructed of stainless steel; and the Z character which represents the load cell capacity.

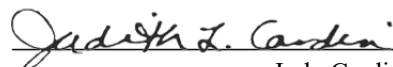
Standard Features:

- Nominal Output: 3.0 mV/V
- 4-wire Design

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: July 29, 1998

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**Rice Lake Weighing Systems**

Load Cell / RL75223A-Z Series

Application: The load cells may be used in Class III L scales for 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, $v_{\min}$ 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 on the load cell. All other required information must be on an accompanying document including the serial number of the load cell.

Model Designations and Load Cell Parameters:

Model	Capacity (lb)	$v_{\min}$ (lb)	Minimum Dead Load (lb)
RL75223A-20K	20 000	0.8	1000
RL75223A-25K	25 000	1.0	1250
RL75223A-30K	30 000	1.2	1500
RL75223A-40K	40 000	1.6	2000
RL75223A-50K	50 000	2.0	2500
RL75223A-60K	60 000	2.4	3000
RL75223A-65K	65 000	2.6	3250
RL75223A-75K	75 000	3.0	3750
RL75223A-90K	90 000	3.6	4500
RL75223A-100K	100 000	4.0	5000
RL75223A-125K	125 000	5.0	6250
RL75223A-150K	150 000	6.0	7500
RL75223A-200K	200 000	8.0	10 000

Test Conditions: This Certificate is issued based on the following tests and information provided by the manufacturer. Two 50 000-lb capacity load cells were tested 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 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. Representatives of NIST evaluated the manufacturer's test facility, witnessed repeat tests on the load cells, and analyzed the data.

Evaluated By: NIST Force Group, NIST Office of Weights and Measures

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1997. NCWM, Publication 14: Weighing Devices, 1997.

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

Information Reviewed By: L. T. Sebring (NIST) 97-126