



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell

Tension "S" Type, Stainless Steel

Model: RL20001HE

 $n_{\max}$ Single or Multiple Cells, Class III: 5 000 $n_{\max}$ Single or Multiple Cells, Class III L: 10 000

Capacity: 500 lb to 5 000 lb

Accuracy Class: III / III L

Submitted By: Contact Info. Updated November 2022

Rice Lake Weighing Systems

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Email: bbowers@ricelake.comWeb site: www.ricelake.com**Standard Features and Options****Standard Features:**

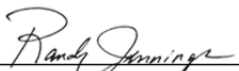
- Minimum Dead Load: 0.0 lb
- 4 Wire Design

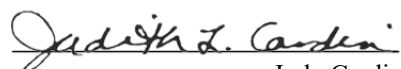
Model	Capacity (lb)*	Class III Single $n_{\max}$: 5000 $v_{\min}$ (lb)	Class III Multiple $n_{\max}$: 5000 $v_{\min}$ (lb)	Class III L Single $n_{\max}$: 10 000 $v_{\min}$ (lb)	Class III L Multiple $n_{\max}$: 10 000 $v_{\min}$ (lb)
RL20001HE-500	500	0.05	0.05	0.02	0.02
RL20001HE-750	750	0.075	0.075	0.03	0.03
RL20001HE-1K	1000	0.10	0.10	0.04	0.04
RL20001HE-1.5K	1500	0.15	0.15	0.06	0.06
RL20001HE-2K	2000	0.20	0.20	0.08	0.08
RL20001HE-2.5K	2500	0.25	0.25	0.10	0.10
RL20001HE-3K	3000	0.30	0.30	0.12	0.12
RL20001HE-4K	4000	0.40	0.40	0.16	0.16
RL20001HE-5K	5000	0.50	0.50	0.20	0.20

*Load cells may have a nominal capacity different from those listed above if the capacities are between 500 lb and 5000 lb, they comply with the conditions listed in the "Application" section, and the $v_{\min}$ meets the following formula. For (Class III cells) $v_{\min} \geq \text{capacity} \div 10\,000$, and (Class III L cells) $v_{\min} \geq \text{capacity} \div 25\,000$.

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.


Randy Jennings
Chairman, NCWM, Inc.


Judith Cardin
Chairman, National Type Evaluation Program Committee
Issued: May 26, 1999

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Rice Lake Weighing Systems

Load Cell / RL20001HE

Application: The load cells may be used in Class III and III L 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 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, 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 on the following tests and upon information provided by the manufacturer. One 500-lb and one 5000-lb capacity load cell were tested at NIST using dead weights as the reference standard. The data were analyzed for both single and 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.

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, 1998. NCWM, Publication 14: Weighing Devices, 1998.

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)