

***National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices***

For:

Force Transducer (Load Cell)
Double Ended Shear Beam
Model Family: RL Series see page 2*
 $n_{\max}$, Multiple Cells: 10,000
Capacity: 20,000 to 200,000 lb

Accuracy Class: IIII

Submitted by: Contact Info. Updated November 2022

Rice Lake Weighing Systems
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Standard Features and Options

*The specific load cells covered by this Certificate are identified in the table on page 2.

Nominal Output: 3.0 mV/V

Cable: 4- wire design

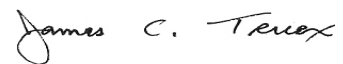
Counterforce Material: Alloy Steel (denoted by "A"), Stainless Steel (denoted by "S")

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of 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.



Don Onwiler
Chairman, NCWM, Inc.



James C. Truex
Chairman, National Type Evaluation Program Committee

Issue date: December 7, 2005

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

Rice Lake Weighing Systems
Double Ended Shear Beam Load Cell
Model Family: RL series

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.

Models:

Model Designations and Load Cell Parameters				
Model		Capacity (lb)	$v_{\min}$ (lb)	Minimum Dead Load (lb)
RL75040A-20K	RL75040S-20K	20 000	0.8	1000
RL75040A-25K	RL75040S-25K	25 000	1.0	1250
RL75040A-30K	RL75040S-30K	30 000	1.2	1500
RL75040A-40K	RL75040S-40K	40 000	1.6	2000
RL75040A-50K	RLBD50000S-50K	50 000	2.0	2500
RL75040A-60K	RL75040S-60K	60 000	2.4	3000
RL75040A-65K	RL75040S-65K	65 000	2.6	3250
RL75040A-75K	RL75040S-75K	75 000	3.0	3750
RL75040A-90K	RL75040S-90K	90 000	3.6	4500
RL75040A-100K	RL75040S-100K	100 000	4.0	5000
RL75040A-125K	RL75040S-125K	125 000	5.0	6250
RL75040A-150K	RL75040S-150K	150 000	6.0	7500
RL75040A-200K	RL75040S-200K	200 000	8.0	10 000

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. This Certificate supersedes Certificate of Conformance Number 92-018 and is issued to add the suffix “S” to the model designation, which denotes load cells constructed of stainless steel, and add additional capacities. One 50 000-lb capacity load cell of stainless steel construction was tested at NIST FG using dead weights as the reference standard. The data were analyzed for multiple load cell applications. The cell was tested over a temperature range of -10°C to 40°C . Three tests were run on the 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. The previous test conditions are listed below for reference

Certificate of Conformance Number 92-018: This certificate is issued based upon the following tests and upon 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 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. The manufacturer's laboratory was used to collect the test data. Representatives from the National Institute of Standards and Technology evaluated the manufacturer's test facility, witnessed repeat tests on the load cells, and analyzed the data. The results indicate that the load cells comply with the applicable requirements of NBS Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1996 Edition

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

Conclusion: The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Information Reviewed By: S. Patoray, L. Bernetich (NCMW) 92-018A1