



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Double Ended Shear Beam
Model: RL75058-LP, RL75058S-LP
 n_{max} : 10 000, Multiple Cell
Capacity: 20 000 lb to 200 000 lb
Accuracy Class: III L

Submitted By:

Rice Lake Weighing Systems
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Standard Features and Options

- Nominal Output: 3 mV/V
- 4-wire and 6-wire Design
- Material: Alloy Steel, Stainless Steel
- Minimum dead load: 0 kg

Capacity (lb)	Multiple Cell / Class III L n_{max} 10 000 v_{min} (lb)	Capacity (lb)	Multiple Cell / Class III L n_{max} 10 000 v_{min} (lb)
20 000	0.57	75 000	2.14
25 000	0.71	90 000	2.57
30 000	0.86	100 000	2.86
35 000	1.00	125 000	3.57
40 000	1.14	150 000	4.29
50 000 *	1.43	200 000	5.71
60 000	1.71		

*Load Cells Tested

This device was evaluated under the National Type Evaluation Program 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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Hal Prince
Chairman, NCWM, Inc.

Craig VanBuren
Chair, NTEP Committee
Issued: November 16, 2020

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Rice Lake Weighing Systems
Load Cell / RL75058-LP, RL75058S-LP

Application: The load cells may be used in III L 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} 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 supersedes Certificate of Conformance Number 20-081 and was issued to recognize additional evaluation and testing to recognize a new model, stainless steel and 6-conductor design. One 50 000 lb load cell was tested at NIST using dead weights as the reference standard. The data was analyzed for multiple load cell applications. The cell was tested over a temperature range of -10 °C to 40 °C. Tests were run on the cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. NCWM Publication 14 selection criteria was used to determine cell tested. Previous test conditions are listed below for reference.

Certificate of Conformance Number 20-081: This certificate is issued based upon the following tests and upon information provided by the manufacturer. Two 50 000 lb load cells were tested at NIST using dead weights as the reference standard. The data was analyzed for multiple 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 due to the insensitivity of the load cell design to changes in barometric pressure. NCWM Publication 14 selection criteria were used to determine cells tested.

Evaluated By: K. Chesnutwood (NIST Force Group) 20-081; M. Manheim (NCWM) 20-081A1

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14: Measuring Devices*, 2020 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) 20-081, 20-081A1

Example(s) of Device:

