



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell

Compression

Model: RL82025 / RL82025CP

 $n_{\max}$: 10 000, Multiple Cell

Capacity: 15 t to 60 t (15 000 to 60 000 kg)

Accuracy Class: III L

Submitted By:

Rice Lake Weighing Systems

230 West Coleman Street

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Contact: Derek Bender

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

The specific models covered by this Certificate are listed on Page 2 and are identified by the model designation RL82025/RL82025CP

The specific load cell capacities, $v_{\min}$ values, and minimum dead loads are listed on Page 2.

- Nominal Output: 2.0 mV/V
- 6-Wire Design
- Excitation Voltage: Up to 15V

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.

Marc Paquette
Chair, NCWM, Inc.

Gene Robertson
Chair, NTEP Committee
Issued: December 5, 2024

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**Rice Lake Weighing Systems**

Load Cell / RL82025, RL82025CP

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, the $v_{\min}$ values, and the 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.

Load Cell Parameters:

Model	Capacity in metric ton (t)	Multiple 10 000 $v_{\min}$ (kg)	Minimum Dead Load (kg)
RL82025/RL82025CP 15t	15	0.75	0
RL82025/RL82025CP 20t	20	1.00	0
RL82025/RL82025CP 25t	25	1.25	0
RL82025/RL82025CP 30t	30	1.50	0
RL82025/RL82025CP 40t	40	2.00	0
RL82025/RL82025CP 50t	50	2.50	0
RL82025/RL82025CP 60t	60	3.00	0

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. Two 30 000 kg capacity load cells were tested at NIST 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 also conducted due to the sensitivity of the load cell design to changes in barometric pressure. NCWM Pub 14 selection criteria was used to determine the cells to be tested.

Evaluated By: K. Chesnutwood (NIST Mass & Force Group) 24-109

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2024. NCWM, Publication 14: Weighing Devices, 2024.

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) 24-109



Rice Lake Weighing Systems
Load Cell / RL82025, RL82025CP

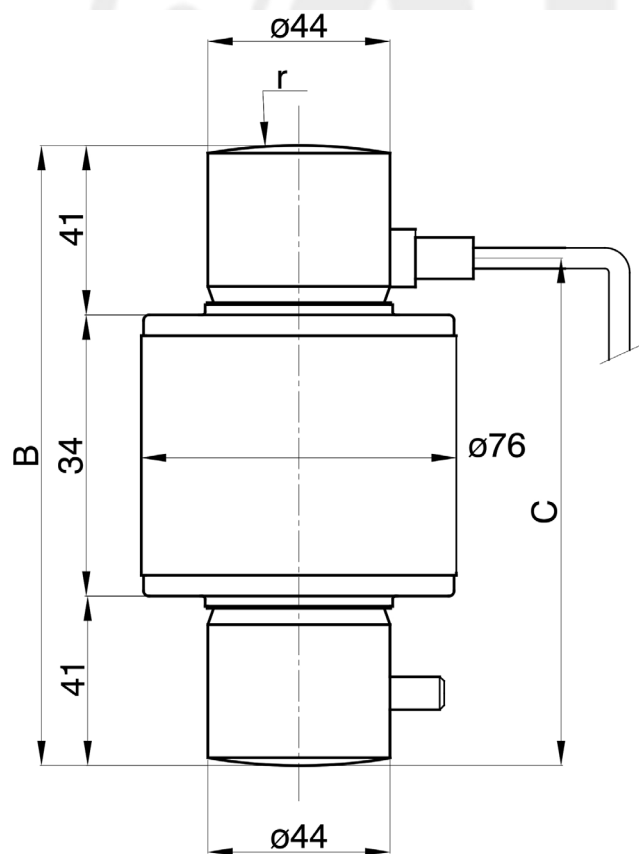
Example of Device:



Model RL82025



Model RL82025CP



Pin Anti-rotation

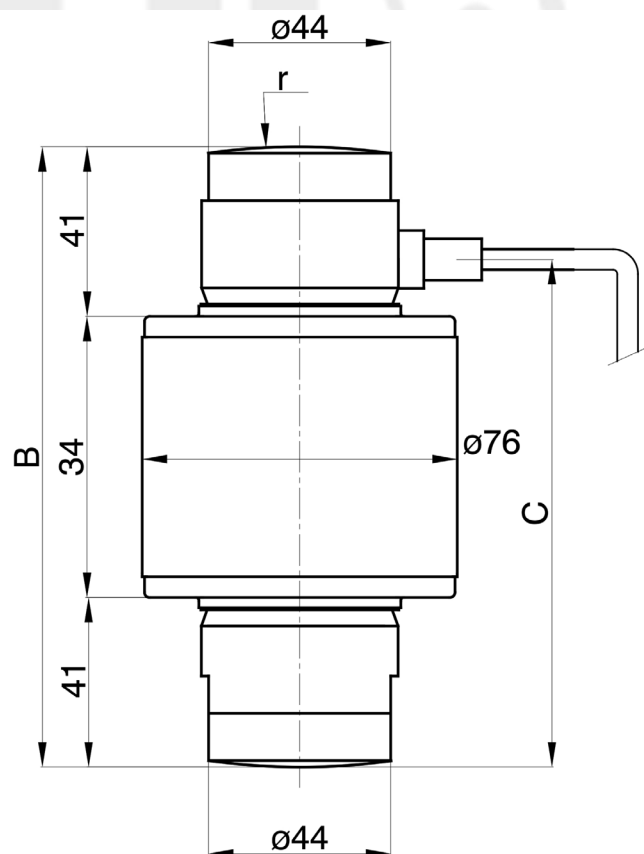


Plate Anti-rotation