NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Beam
Model: RL26018A Series
n_{max}: 5000, Class III / Single Cell
Capacity: 50 kg to 635 kg (110 lb to 1397 lb)

Accuracy Class: III

Submitted By:
Rice Lake Weighing Systems
230 West Coleman Street
Rice Lake, WI 54868
Tel: 715-234-9171
Fax: 715-234-6967
Contact: Jan Konijnenburg
Email: jkonijnenburg@ricelake.com
Web site: www.ricelake.com

Standard Features and Options

- Nominal Output: 2 mV/V
- 6-wire Design
- Material: Aluminum
- Minimum dead load: 0 kg / 0 lb
- Load Cell Parameters: *capacity evaluated

Capacity (kg)	Capacity (lb)	Single Cell / Class III n_{max} 5 000 v_{min} (kg/lb)
50	110	0.0042 / 0.009
75	165	0.0063 / 0.013
100*	220	0.0083 / 0.018
150	330	0.012 / 0.027
200	440	0.017 / 0.036
250	550	0.021 / 0.045
300	660	0.025 / 0.054
500	1100	0.042/ 0.090
635	1397	0.053 / 0.11

Temperature Range: -10 ℃ to 40 ℃ (14 ℉ to 104 ℉)

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.
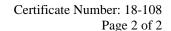
Brett Gurney
Chairman, NCWM, Inc.

James Cassidy
Chairman, National Type Evaluation Program Committee
Issued: August 2, 2018

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

Rice Lake Weighing Systems

Load Cell / RL26018A Series

Application: The load cells may be used in Class III, single 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 was issued based upon the following tests and upon information provided by the manufacturer. One 100 kg load cell was tested at NIST using dead weights as the reference standard. The data were analyzed for single 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. The cell design is not susceptible to the effects of barometric pressure, therefore this test was not performed. NCWM Publication 14 selection criteria were used to determine cells tested.

Evaluated By: K. Chesnutwood (NIST Force Group)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2018. NCWM, Publication 14: Weighing Devices, 2018.

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

Information Reviewed By: J. Truex (NCWM)

Examples of Device: