



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Single-Point Bending Beam
Model: RLPWM15HE Series
 $n_{\max}$: 5 000, Single Cell
Capacity: 10 kg to 100 kg
Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

Rice Lake Weighing Systems
230 W. Coleman Street
Rice Lake, WI, 54868
Tel: 715-234-9171
Fax: 715-234-6967
Contact: Brad Bowers
Email: bbowers@ricelake.com
Web site: www.ricelake.com

Standard Features and Options

RLPWM15HE
Nominal output: 2.0 mV/V
6-wire design
Maximum excitation voltage: 10 V AC/DC
Material: Stainless Steel (hermetically sealed) Fixed cable

Model	Capacity (kg)	$v_{\min}$ (g)	Minimum Dead Load
RLPWM15HE-10kg	10	0.6	0
RLPWM15HE-20kg	20	1.2	0
RLPWM15HE-50kg	50	3	0
RLPWM15HE-100kg	100	6	0

Temperature range of -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 *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: March 22, 2021

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Rice Lake Weighing Systems
Single-Point Bending Beam Load Cell / RLPWM15HE

Application: These load cells may be used in Class III scales for 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 $v_{\min}$ 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 name, 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 manufacturer name, model designation, serial number of the load cell.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. A RLPWM15HE 10 kg capacity load cell was tested by the NMi Certin B.V., at the Netherlands facility. Testing was conducted in accordance with the OIML-CS, signed by the NCWM as a utilizing participant for load cell testing. Testing was conducted using deadweights as the reference standard. The load cell was tested over a temperature range of -10 °C to 40 °C with tests run at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test to determine sensitivity of the load cell design to changes in barometric pressure was conducted. The data was analyzed for single load cell applications. OIML R60 selection criteria was used to determine the cell tested.

Certificate of Conformance Number 09-015: This certificate is issued based upon the following tests and upon information provided by the manufacturer. Two 20 kg capacity load cells were tested using dead weights as the reference standard. The data was analyzed for single cell applications. The load cells were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). 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: K. Jones (CA) 09-015; S.J. Koeman (NMI) 09-015A1; E. van der Grinten (NMI) 09-015A1; M. Manheim (NCWM) 09-015A1

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14: Measuring Devices*, 2019 Edition.

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) 09-015; D. Flocken (NCWM) 09-015A1

Example(s) of Device:

