NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

## for Weighing and Measuring Devices

**For:**
Load Cell
Single Point, Compression
Model: RLPC3SS
$n_{max}$: 5000, Single Cell, Class III,
10 000, Single Cell, Class IIIL
Capacity: 7 kg to 150 kg

**Submitted By:**
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**Standard Features and Options**

- Specific load cell capacities and $v_{min}$ values covered by this certificate are listed in the table below.
- Nominal output: 2.0 mV/V
- Stainless Steel material
- 4 wire design
- Minimum Dead Load: 0 kg

| Model | Capacity (kg) | $v_{min}$ Class III/IIIL (kg) |
|---|---|---|
| RLPC3SS | 7 | 0.00035 |
| | 10 | 0.00050 |
| | 30 | 0.00150 |
| | 60 | 0.00300 |
| | 100 | 0.00500 |
| | 150 | 0.00750 |

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 1, 2021

**Rice Lake Weighing Systems**
Load Cell / RLPC3SS

**Application:** The load cells may be used in Class III or Class IIIL 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 $v_{min}$ 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, serial number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

**Test Conditions:** This certificate is issued based upon the following tests and upon information provided by the manufacturer. A Model RLPC3SS, 7 kg and 60 kg capacity load cells were tested by the NMi Certin B.V. at the Netherlands facility. Testing was conducted in accordance with the OIML-CS for OIML R60 Certificate System, signed by the NCWM as a utilizing participant of load cell test data. Testing was conducted using deadweights as the reference standard. The load cells were tested over a temperature range of -10 °C to 40 °C with tests run on each cell at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The data was analyzed for single load cell applications. OIML R60 selection criteria was used to determine which load cell capacities were tested.

**Evaluated By:** R. Valkema, M.M.J. Meijer (NMi)

**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)

**Example(s) of Device:**