



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Load Cell  
Canister, Compression  
Model: RCMF Series  
nmax: 10 000 Multiple Cell Only  
vmin: See table after  
application section  
Class: III L Multiple cell only  
Capacity range: 10 000 kg to 100 000 kg

**Submitted By:**

3S Fabrications (Pvt) LTD.  
Venus Mills, Etiyawela, Daluwela  
Dankotuwa, North Western, Sri Lanka 61130  
Tel: +94711975181  
Fax: +94312261191  
Contact: Nayani Rathnayaka  
Email: [nayani@3slk.com](mailto:nayani@3slk.com)

**Standard Features and Options**

- Stainless Steel Construction
- Excitation Voltage: 1 V to 15 V
- Nominal Output: 2.0 mV/V Bridge
- Number of Wires: 4 wires
- Resistance Input Nominal: 1101 +/- 50 ohms

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.

Marc Paquette  
Chair, NCWM, Inc.

Gene Robertson  
Chair, NTEP Committee  
Issued: March 23, 2025

9011 South 83<sup>rd</sup> Street | Lincoln, Nebraska 68516

The National Council on Weights and Measures (NCWM) does not approve, recommend, or endorse any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.



**3S Fabrications (Pvt) LTD.**  
Load Cell / RCMF Series

**Application:** The load cells can 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.

Models	Capacity (kg)	$v_{min}$ (kg)	Minimum Dead Load (kg)
RCMF Series	10 000	0.71	0
	12 500	0.89	0
	15 000	1.07	0
	20 000	1.43	0
	22 500	1.61	0
	• 25 000	1.79	0
	30 000	2.14	0
	40 000	2.86	0
	50 000	3.57	0
	60 000	4.29	0
	75 000	5.36	0
	90 000	6.43	0
	100 000	7.14	0

- Load Cell Tested

**Identification:** The load cell has laser-etched markings containing the manufacturer, model designation, serial number, and CC number. If the information is not marked on the load cell, it must be on an accompanying document, including the serial number.

**Test Conditions:** This certificate supersedes Certificate of Conformance 25-010 and is issued to update the image of the load cell.

**Certificate of Conformance 25-010:** A Model RCMF 25 000 kg capacity load cell was tested by the PTB 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 barometric pressure test was conducted to determine the sensitivity of the load cell design to changes in barometric pressure. The data was analyzed for multiple load cell applications. OIML R60 selection criteria were used to determine the cells tested

**Evaluated By:** J. Mecke (PTB) 25-010 (CN 11303); J. Gibson (NCMW) 25-010A1 (CN 11367)

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

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



**3S Fabrications (Pvt) LTD.**  
Load Cell / RCMF Series

**Information Reviewed By:** J. Gibson (NCWM) 25-010, 25-010A1

**Example of Device:**

