

**National Type Evaluation Program**  
**Certificate of Conformance**  
**for Weighing and Measuring Devices**

For:  
Load Cell  
Low Profile, Ring Type  
Models: RLC-A5/B10 Series\*  
 $n_{\max}$ , Multiple Cell, Class III: 5000  
 $n_{\max}$ , Multiple Cell, Class III L: 10 000  
Capacity: 500 kg to 5000 kg

Accuracy Class: III/III L

Submitted by:  
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Standard Features and Options

\*The specific model designation is RLC-XX-YY-ZZZZ: where XX represents the accuracy class and maximum number of divisions; YY represents the capacity; and ZZZZ represents the electrical cable length, wiring color code, and private label variations.

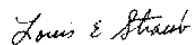
Capacity (kg)	Multiple, Class III		Multiple, Class III L	
	Model	$v_{\min}$ (kg)	Model	$v_{\min}$ (kg)
500	RLC-A5-0.5t	0.030	RLC-B10-0.5t	0.015
1000	RLC-A5-1t	0.060	RLC-B10-1t	0.030
2000	RLC-A5-2t	0.120	RLC-B10-2t	0.060
3500	RLC-A5-3.5t	0.210	RLC-B10-3.5t	0.105
5000	RLC-A5-5t	0.300	RLC-B10-5t	0.150

Minimum Dead Load: 0.0 kg  
Construction Material: Stainless steel  
Nominal Output: 2.0 mV/V  
4-wire Design

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) 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.

Effective Date: July 7, 1997



Louis E. Straub  
Chairman, NCWM, Inc.



G. Weston Diggs  
Chairman, National Type Evaluation Program Committee

Issue date: June 23, 1998

Note: The National Conference on Weights and Measures 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.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

**Revere Transducers Inc.**  
**Ring Type Load Cell**  
**Models: RLC-A5/B10 Series**

**Application:** The load cells may be used in Class III and 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 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 with the manufacturer, model designation, and serial number is on the load cell. All other required information must be on an accompanying document including the serial number of the load cell.

**Test Conditions:** Two 2000 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  $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ . 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 performed.

The results of the evaluation indicate the devices comply with the applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 1997 Edition

**Tested By:** NIST Force Group, NIST Office of Weights and Measures

**Information Reviewed By:** Thomas M. Ahrens (NIST)