

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

For:
Load Cell
Low Profile, Ring Type
Models: RLC 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

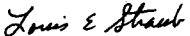
Capacity kg	V min (kg) Multiple, Class III	V min (kg) Multiple, Class III L
500	0.03	0.015
1000	0.06	0.030
2000	0.12	0.060
3500	0.21	0.105
5000	0.30	0.150


Minimum Dead Load: 0.0kg
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: December 22, 2000


Louis E. Straub
Chairman, NCWM, Inc.


G. Weston Diggs
Chairman, National Type Evaluation Program Committee
Issue date: December 28, 2000

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.

**Mettler-Toledo
Load Cell, Ring Type
Model: RLC 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: This certificate is based on the following tests and information provided by the manufacturer. 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 °C to 40 °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, 2000 Edition

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

Information Reviewed By: S. Patoray (NCWM) 00-124