NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Single Point
Model: RL1250-Nx-YYkg
n_{max} Single Cell: 5000
Capacity: 50 kg to 1000 kg
Accuracy Class: III

Submitted By:
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Standard Features and Options

*The load cells in this family are identified by the capacities of the cells.

Capacity (kg)	v_{min} (kg)	Minimum Dead Load (kg)
50*	0.0033	0
75	0.0050	0
100	0.0067	0
150	0.0100	0
200	0.0133	0
250*	0.0167	0
300	0.0200	0
500	0.0330	0
635	0.0420	0
1000	0.0670	0

*Capacities Tested

Temperature Range: -10 ºC to 40 ºC (14 ºF to 104 ºF)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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.

Stephen Benjamin
Chairman, NCWM, Inc.

Kurt Floren
Chairman, National Type Evaluation Program Committee

Issued: August 15, 2012

Ricel Lake Weighing Systems

Load Cell / RL1250-Nx-YYkg

Application: The load cells may be used in Class III scales for both single and multiple cell applications consistent with the model designations and parameters specified in this certificate. Load cells for 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 load cells with fewer scale 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.

Test Conditions: This certificate supersedes Certificate of Conformance Number 95-075 and was issued to add a 75 kg capacity cell. Issuance of the certificate was based upon the following test conditions and information provided by the manufacturer. Contact information has also been updated. No additional testing was deemed necessary. NCWM Pub 14 selection criteria were used to determine cells tested. Previous test conditions are listed below for reference.

Certificate of Conformance Number 95-075: This certificate is issued based upon the following tests and information provided by the manufacturer. Two 50 kg and three 250 kg capacity load cells were tested at a NTEP laboratory using dead weights. The data were analyzed for single load cell applications. The cells were tested over a temperature range of -10 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 waived due to the insensitivity of the load cell design to changes in barometric pressure.

The manufacturer's laboratory was used to collect the test data. Representatives from the National Institute of Standards and Technology evaluated the manufacturer's test facility, witnessed repeat tests on the load cell, and analyzed the data.

Evaluated By: NIST Force Group, S. Cook & Gary Castro (CA) 95-075

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1995. NCWM, Publication 14: Weighing Devices, 1995.

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

Information Reviewed By: L. Sebring (NIST) 95-075: J. Truex (NCWM) 95-075A1

Example of Device: