NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Compression Loading
Model: CN-1250-xxkg and CN-1250-1-xxkg Series
n_{max}: 5 000, Class III, Single Cell
Capacity: 50 to 500 kg
Accuracy Class: III

Submitted By:
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Standard Features and Options

The specific load cell capacities, v_{min} values, and minimum dead loads covered by this Certificate are listed in the table below.
The xx in the model designates capacity in kg

- Nominal Output: 2.0 mV/V
- Aluminum
- 4 Wire Design

Capacity	v_{min} Class III Single cell, n=5000	Minimum Dead Load
50 kg	0.0083 kg	2 kg
60 kg	0.0097 kg	2.5 kg
75 kg	0.013 kg	3 kg
100 kg	0.017 kg	4 kg
150 kg	0.025 kg	6 kg
200 kg*	0.032 kg	10 kg
250 kg	0.041 kg	10 kg
300 kg	0.049 kg	10 kg
500 kg	0.083 kg	10 kg

*2 load cells 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.

Tim Tyson
Chairman, NCWM, Inc.

Randy Jennings
Chairman, National Type Evaluation Program Committee
Issued: May 18, 2011

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Yuyao Pacific Weighing Engineering Co., Ltd.

Load Cell / CN-1250-xxkg and CN-1250-1-xxkg Series

Application: The load cells may be used in Class III scales for single cell applications and Class III 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} 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 number, serial number, rated capacity, class and CC number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: This Certificate was issued based on the following tests and upon information provided by the manufacturer. This Certificate supersedes Certificate of Conformance Number 10-102 and is issued to add Model CN-1250-1-xxkg load cell designations. Justification is based on NCWM Publication 14 metrological criteria for load cells to be tested. No additional testing was deemed necessary because of the metrological similarity. Previous test conditions are listed below for reference.

Certificate of Conformance Number 10-102: Two Model CN-1250-200 kg (200 kg capacity) load cells were tested by the NIST Force Group, 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 waived due to the insensitivity of the load cell design to changes in barometric pressure. The data were analyzed for single load cell applications. NCWM Publication 14 selection criteria was used to determine cells tested.

Evaluated By: K. Chesnutwood (NIST Force Group) 10-102

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2011. NCWM, Publication 14: Weighing Devices, 2011.

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

Information Reviewed By: J. Truex (NCWM)

Examples of Device: