



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Single Ended Beam
Model: H8C-xx Series
 n_{max} : 5000, Class III, Single and Multiple Cell
10 000, Class IIIIL, Multiple Cell
Capacity: 100 kg to 15 000 kg (200 lb to 30 000 lb)
Accuracy Class: III/IIIIL

***Submitted By: Contact Info. Updated October 2015**

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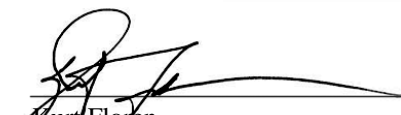
Standard Features and Options

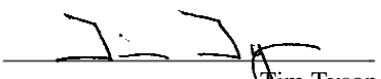
The specific load cell capacities, v_{min} , n_{max} and minimum dead load values covered by this Certificate are listed in page two. Load cells tested are indicated by an *.

- Nominal Output: 3.0 mV/V
- Alloy Steel Material
- 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 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.


Kurt Floren
Chairman, NCWM, Inc.


Jim Tyson
Chairman, National Type Evaluation Program Committee
Issued: March 7, 2012

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Zemic (USA), Inc.

Load Cell / H8C-xx Series

Load Cell Parameters:

| Model Number | Capacity (lb) | Single/Multiple Cell, Class III, 5S/5M v_{min} (lb) | Multiple Cell, Class III L,10M v_{min} (lb) | Minimum Dead Load (lb) |
|-----------------------|---------------|----------------------------------------------------------|--------------------------------------------------|------------------------|
| H8C-xx | 200 | 0.011 | 0.010 | 0.0 |
| H8C-xx | 300 | 0.016 | 0.015 | 0.0 |
| H8C-xx | 400 | 0.022 | 0.020 | 0.0 |
| H8C-xx | 500 | 0.027 | 0.025 | 0.0 |
| H8C-xx | 1000 | 0.054 | 0.050 | 0.0 |
| H8C-xx | 1500 | 0.081 | 0.075 | 0.0 |
| H8C-xx | 2000 | 0.111 | 0.100 | 0.0 |
| H8C-xx | 2500 | 0.135 | 0.125 | 0.0 |
| H8C-xx | 3000 | 0.162 | 0.150 | 0.0 |
| H8C-xx | 4000 | 0.216 | 0.200 | 0.0 |
| H8C-xx & H8C-xx-xx-SE | 5000 | 0.270 | 0.250 | 0.0 |
| H8C-xx | 7500 | 0.405 | 0.375 | 0.0 |
| H8C-xx | 10 000 | 0.540 | 0.500 | 0.0 |
| H8C-xx | 15 000 | 0.810 | 0.750 | 0.0 |
| H8C-xx | 20 000 | 1.080 | 1.000 | 0.0 |
| H8C-xx | 30 000 | 1.620 | 1.500 | 0.0 |
| Model Number | Capacity (kg) | Single/Multiple Cell, Class III, 5S/5M v_{min} (kg) | Multiple Cell, Class III L,10M v_{min} (kg) | Minimum Dead Load (kg) |
| H8C-xx | 100* | 0.005 | 0.005 | 0.0 |
| H8C-xx | 150 | 0.007 | 0.007 | 0.0 |
| H8C-xx | 200 | 0.010 | 0.010 | 0.0 |
| H8C-xx | 250 | 0.014 | 0.013 | 0.0 |
| H8C-xx | 500 | 0.027 | 0.025 | 0.0 |
| H8C-xx | 1000* | 0.054 | 0.050 | 0.0 |
| H8C-xx | 1500 | 0.081 | 0.075 | 0.0 |
| H8C-xx | 2000 | 0.108 | 0.100 | 0.0 |
| H8C-xx | 2500 | 0.135 | 0.125 | 0.0 |
| H8C-xx | 3000* | 0.162 | 0.150 | 0.0 |
| H8C-xx | 5000 | 0.270 | 0.250 | 0.0 |
| H8C-xx | 7500 | 0.405 | 0.375 | 0.0 |
| H8C-xx | 10 000 | 0.540 | 0.500 | 0.0 |
| H8C-xx | 15 000 | 0.810 | 0.750 | 0.0 |

*Load cells tested

Application: The load cells may be used in Class III or Class III L scales for single and 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, V_{min} , class, and CC number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.



Zemic (USA), Inc.

Load Cell / H8C-xx Series

Test Conditions: Three load cell was tested by the NMi Certain B.V. at The Netherlands facility. Testing was conducted in accordance with the OIML DoMC Mutual Acceptance Arrangement, signed by the NCWM as a utilizing participant for load cell testing. 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 performed. The data were analyzed for single and multiple load cell applications. OIML R60 selection criteria was used to determine cells tested.

Evaluated By: A.C. Pauwels (NMi), R. Scholten (NMi)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2012. 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)

Example of Device:

