NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Double Ended Shear Beam
Model: 102DH Series
n_{max}: 10 000, Class III L, Multiple Cell
Capacity: 20 000 to 120 000 lb
Accuracy Class: III L

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.

- Nominal Output: 3.0 mV/V
- Alloy Steel
- 4 Wire Design

Model	Capacity	v_{min} Class III L Multiple cell, n= 10 000	Minimum Dead Load
102DH*	20 000 lb	1.33 lb	0 lb
102DH	40 000 lb	2.67 lb	0 lb
102DH	50 000 lb	3.33 lb	0 lb
102DH	60 000 lb	4.0 lb	0 lb
102DH	75 000 lb	5.0 lb	0 lb
102DH	100 000 lb	6.67 lb	0 lb
102DH	120 000 lb	8.00 lb	0 lb

*load cell 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.

Kurt Floren
Chairman, NCWM, Inc.

Tim Tyson
Chairman, National Type Evaluation Program Committee

Issued: August 11, 2011

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Anyload Transducer Co., Ltd.

Load Cell / 102DH Series

Application: The load cells may be used in Class IIIL 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} 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, v_{min} and CC number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: A Model 102DH (10 000 lb capacity) 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 to determine sensitivity of the load cell design to changes in barometric pressure was conducted. The data were analyzed for multiple load cell applications. OIML R60 selection criteria was used to determine cells tested.

Evaluated By: C. Bontenbal, R. Scholten (NMi)

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)

Example of Device: