NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Compression, Single Point
Model: 651xx Series
n_{max}: 10 000, Class III, Single Cell (5 kg to 60 kg capacities)
5000, Class III, Single Cell (100 kg to 500 kg)
Capacity: 5 kg to 500 kg
Accuracy Class: III

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Standard Features and Options

- Model 651xxxx series where the first "xx" in the model designation may be HS, TS, JS, or KS and the last "xx" in the model designation may be SE, LE, UN, BC, 22, 55, 66 or 77
- Model 651 Series, specific load cell capacities and v_{min} values are listed in the table below
- Nominal output: 2.0 mV/V
- Stainless Steel material
- 4 wire design
- Minimum Dead Load: 0 kg

Models	Capacity	v_{min} Class III	n_{max}
651xx	5 kg	0.00028 kg	10 000
	10 kg*	0.00056 kg	10 000
	20 kg	0.0011 kg	10 000
	30 kg	0.0017 kg	10 000
	50 kg	0.0028 kg	10 000
*Load cells tested	60 kg	0.0033 kg	10 000
	100 kg*	0.004 kg	5000
	200 kg	0.008 kg	5000
	300 kg	0.012 kg	5000
	500 kg	0.020 kg	5000

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 *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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Ivan Hankins
Chairman, NCWM, Inc.

Hal Prince
Chair, NTEP Committee
Issued: August 31, 2021

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Anyload LLC

Load Cell / 651xx Series

Application: The load cells may be used in Class III scales for single 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, serial number, rated capacity, class, NTEP certificate number, n_{max} and v_{min}. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: This certificate supersedes certificate of conformance 15-094 and is issued to update company address and add the SE, LE and UN suffix to the model 651xx Series. There are no metrological differences between these models and the ones previously listed. No additional testing was necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 15-094: A model 651HS-10kg and a model 651KS22-100 kg load cells were 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 ºC to 40 ºC 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 single load cell applications. OIML R60 selection criteria were used to determine cells tested.

Evaluated By: E. van der Grinten, M.M.J. Meijer (NMi) 15-094; M. Manheim (NCWM) 15-094A1

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14: Weighing Devices*, 2015 Edition.

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) 15-094; D. Flocken (NCWM) 15-094A1

Example(s) of Device:

Model 651HS

Model 651KSBC