



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
S-type, Compression or Tension
Model: UXT
 n_{max} : 5000, Class III, Single Cell
10 000, Class III L, Single Cell
Capacity: 50 kg to 10 000 kg
Accuracy Class: III/III L

Submitted By:

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Standard Features and Options

- Specific load cell capacities and v_{min} values covered by this certificate are listed in the table below.
- Nominal output: 3.0 mV/V
- Stainless Steel material
- 6 wire design
- Minimum Dead Load: 0 kg

Models	Capacity	v_{min} Class III	v_{min} Class III L
* Load Cells Tested	50 kg*	0.002 kg	0.002 kg
	100 kg	0.004 kg	0.004 kg
	250 kg*	0.025 kg	0.025 kg
	500 kg	0.050 kg	0.050 kg
	1 000 kg	0.100 kg	0.100 kg
	2 000 kg*	0.083 kg	0.083 kg
	5 000 kg	0.208 kg	0.208 kg
	7 500 kg	0.313 kg	0.313 kg
	10 000 kg	0.417 kg	0.417 kg

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.


Brett Gurney
Chairman, NCWM, Inc.


James Cassidy
Committee Chair, NTEP Committee
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Flintec UK Ltd
Load Cell / UXT

Application: The load cells may be used in Class III or Class III L 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 and NTEP certificate number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: A Model UXT, 50 kg, 250 kg, and 2 000 kg capacity load cells were tested by the NMi Certin B.V. at the Netherlands facility. Testing was conducted in accordance with the OIML Certificate System, signed by the NCWM as a utilizing participant of load cell test data. 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 was analyzed for single load cell applications. OIML R60 selection criteria was used to determine which load cell capacities were tested.

Evaluated By: S.J. Koeman (NMi)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14 Measuring Devices*, 2019 Edition.

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

Information Reviewed By: D. Flocken (NCWM)

Example(s) of Device:



Photograph shows two different capacities