



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
Bending Beam, Single Point Load Cell
Model: PC7 Series
 n_{max} : 3000 & 4000, Class III, Single Cell
Capacity: 100 kg to 500 kg
Accuracy Class: III

Submitted By:

Flintec UK Ltd.
W4/5 Capital Point, Capital Business Park, Wentloog Avenue
Cardiff, South Wales, CF3 2PW
The United Kingdom
Tel: +44 (0)2920 797959
Fax: +44 (0)2920 797939
Contact: John Haberfield
Email: john.h@flintec.com
Web site: www.flintec.com

Standard Features and Options

- Model PC7, specific load cell capacities and v_{min} values covered by this Certificate are listed in the table below.
- Nominal output: 2.0 mV/V
- Stainless Steel material
- 6 wire design
- Minimum Dead Load: 0 kg

Models	Capacity	V_{min} Class III Single Cell	n_{max}
PC7 * Load Cell Tested	100 kg*	0.0066kg	3000
	250 kg	0.0166kg	3000
	500 kg	0.0333 kg	3000
	100 kg	0.0066 kg	4000
	250 kg	0.0166 kg	4000
	500 kg	0.0333 kg	4000

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.

Kristin Maëy
Chairman, NCWM, Inc.

Jerry Buendel
Chairman, National Type Evaluation Program Committee

Issued: October 5, 2016

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) does not approve, recommend or endorse any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.



Flintec UK Ltd.

Load Cell / PC7 Series

Application: The load cells may be used in Class III 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, serial number, rated capacity, class and NTEP certificate number. Other pertinent information will be specified on the Calibration Certificate accompanying the cell.

Test Conditions: A Model PC7 100 kg capacity load cell was tested by the NMO Test Laboratory at the Teddington, United Kingdom 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 cell was 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 single load cell applications. OIML R60 selection criteria were used to determine cells tested.

Evaluated By: M. Linnemann, G. Glas (NMO)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2016. NCWM, Publication 14: Weighing Devices, 2016.

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:

