National Conference on Weights and Measures
15245 Shady Grove Road, Suite 130 • Rockville, MD 20850

National Type Evaluation Program
Certificate of Conformance for Weighing and Measuring Devices

For:
Load Cell
Single Point
Model: PC6 Series*
n_{max}: 5000, Single Cell
Capacity: 10 kg to 200 kg

Accuracy Class: III

Submitted by:
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Standard Features and Options

* The specific capacities, v_{min} values, and minimum dead loads of load cells covered by this certificate are listed in the table on Page 2.

The PC6 Series is identified by the model designation PC6 followed by a suffix, which represents the load cell capacity.

Minimum dead load: 0.0 kg
Material: Stainless steel
Cable: 4-wire design
Nominal input impedance: 1000 ohms
Nominal output: 2 mV/V
Excitation voltage: 5.0 volt (minimum) to 15 volt (maximum) AC/DC

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) 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.

Don Onwiler
Chairman, NCWM, Inc.

James C. Truex
Chairman, National Type Evaluation Program Committee

Issued Date: September 2, 2005

Flintec, Inc.
Load Cell, Single Point
Model: PC6 Series

Application: The load cells may be used in Class III scales for both 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} values, and temperature range are suitable for the application. The manufacturer may market the load cells with fewer scale divisions (n_{max}) and with larger 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.

Load Cell Parameters:

Model	Capacity (kg)	Vmin (g)
PC6-10kg	10	0.5
*PC6-20kg	20	1.0
PC6-50kg	50	2.0
*PC6-100kg	100	5.0
PC6-200kg	200	10.0

*Load cell tested

Identification: A pressure sensitive identification badge containing the manufacturer, model designation, and serial number is located on the load cell. All other required information, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

Test Conditions: Test data was analyzed for the 20kg and 100kg load cells submitted. Two 20kg and two 100kg load cells were tested using dead weights as the reference standard. The data was analyzed for single load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C. Three tests were run at each temperature. The temperature effect on zero was measured and a time dependence (creep) test was performed. The barometric pressure test was waived due to the insensitivity of the load cell design to changes in barometric pressure.

Type Evaluation Criteria Used: NIST Handbook 44, 2005 Edition, NCWM Publication 14, 2005 Edition

Tested By: G. Castro (CA), B. Carbajal (CA)

Conclusion: The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Information Reviewed By: S. Patoray, L. Bernetich (NCWM)