

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

For:

Load Cell
Column Compression
Models: HPC
 n_{\max} : 10 000 Multiple Cell
Capacity: see below

Accuracy Class: III L

Submitted by:

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Standard Features and Options

Model Number	Max Capacity E_{\max}	V_{\min}	Minimum Dead Load E_{\min}
HPC 25000	25 000 kg	0.613 kg	0 kg
HPC30000 *	30 000 kg	0.735 kg	0 kg
HPC 45000	45 000 kg	1.103 kg	0 kg
HPC 55000	55 115 lb	1.351 lb	0 lb
HPC 66000	66 138 lb	1.621 lb	0 lb
HPC 99000	99 207 lb	2.432 lb	0 lb
HPC 50000	50 000 lb	1.225 lb	0 lb
HPC 60000	60 000 lb	1.471 lb	0 lb
HPC 100000	100 000 lb	2.451 lb	0 lb

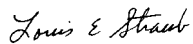
* Two (2) load cells submitted

Number of wires: 6 wire
Excitation voltage range: 5 – 18 V
Nominal output: 2 mV/V

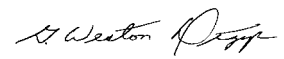
Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

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.

Effective Date: March 20, 2001



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: March 20, 2001

Note: The National Conference on Weights and Measures 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.

Precision Transducers Ltd.
Column Compression Load Cell
Model: HPC

Application: The load cells may be used for III L 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} values, and temperature range are suitable for the application. The manufacturer may market the load cell with fewer 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.

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: This Certificate is issued based on the following tests and upon information provided by the manufacturer. Two 30 000 kg capacity load cells were tested by NIST using dead weights as the reference standard. The data was analyzed for multiple load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Three tests were 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 was conducted.

Type Evaluation Criteria Used: NIST Handbook 44, 2001 Edition

Tested By: NIST Force Group

Reviewed By: S. Patoray (NCWM)