NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Shear Beam, Compression
Model: EBP-1A Series
n_{max} Multiple Cell: 5 000 / 10 000
Accuracy Class: III / III L

Submitted By:
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Standard Features and Options

The specific load cell capacities, v_{min} values, and minimum dead loads are listed on page 2.

Standard Features:

- Counterforce Material: Stainless Steel
- Number of Wires in Cable: 4-wire Design
- Nominal Output: 2 mV/V

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 "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.

Tim Tyson
Chairman, NCWM, Inc.

Randy Jennings
Chairman, National Type Evaluation Program Committee
Issued: June 3, 2011

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Vishay Transducers, Ltd.

Load Cell / EBP-1A Series

Load Cell Parameters:

Model Number	Capacity (lb)	v_{min} (lb)		Minimum Dead Load
		Multiple Cell III	Multiple Cell III L	
EBP-1A	1 000	0.07	0.04	20
EBP-1A	1 500	0.10	0.06	30
EBP-1A	2 000	0.14	0.08	40
EBP-1A	2 500	0.18	0.10	50
EBP-1A	3 000	0.21	0.12	60
EBP-1A	4 000	0.28	0.16	80
EBP-1A	5 000	0.35	0.20	100
EBP-1A	6 000	0.42	0.24	120
EBP-1A	7 500	0.54	0.30	150

Application: The load cells may be used in both Class III and 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 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.

Test Conditions: This Certificate supersedes Certificate of Conformance number 04-045 and was issued without additional testing to reactivate Certificate of Conformance number 04-045 without lapse. Changes were also made to update the contact information. Previous test conditions are listed below for reference.

Certificate of Conformance Number 04-045: This certificate is issued based upon the following tests and upon information provided by the manufacturer. Two 4 000 lb capacity load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for multiple load cell applications. The cells were tested over a temperature range of -10 °C to 40 °C. 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 waived due to the insensitivity of the load cell design to changes in barometric pressure.

Evaluated By: NIST Force Group, NIST Office of Weights and Measures

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2011. NCWM, Publication 14: Weighing Devices, 2011.

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

Information Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 04-045; J. Truex (NCWM) 04-045A1

Examples of Device: