NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Shear Beam
Model: SBS Series
n_{max}: Multiple Cell: 5 000, Class III
Capacity: (see below)
Accuracy Class: III

***Submitted By: Contact Info. Updated: December 09**
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Standard Features and Options

Model	Capacity (lb)	v_{min} (lb)
SBS-1K	1 000	0.2
SBS-2K	2 000	0.3
SBS-2.5K	2 500	0.4
SBS-3K	3 000	0.4
SBS-4K	4 000	0.5
SBS-5K/SE	5 000	0.7
SBS-5K/LE	5 000	0.7
SBS-10K	10 000	0.7

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.

Randy Jennings
Chairman, NCWM, Inc.

Judy Cardin
Chairman, National Type Evaluation Program Committee
Issued: December 11, 2009

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Transcell Technology, Inc.

Load Cell / SBS Series

Application: The load cells may be used for Class III 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 manufacture 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.

Test Conditions: Two 4000-lb capacity load cells were tested at 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. 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, 1995. NCWM, Publication 14: Weighing Devices, 1995.

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

Information Reviewed By: C. V. Cotsoradis (NIST)