



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 November 2022

Transcell Technology, Inc.

975 Deerfield Parkway

Buffalo Grove, IL 60089

Tel: 847-419-9180

Fax: 847-419-1515

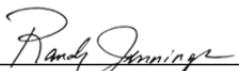
Contact: Jon Heinlein

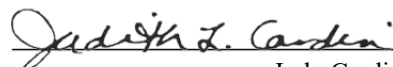
Email: jheinlein@transcell.comWeb site: www.transcell.com**Standard Features and Options**

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 °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.


Randy Jennings
Chairman, NCWM, Inc.


Judith Cardin
Chairman, National Type Evaluation Program Committee
Issued: March 22, 1996

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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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)