



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
S Beam
Model: BSS Series
Single $n_{\max}$: 4 000
 $v_{\min}$: (see below)
Capacity: 250 lb to 2 500 lb
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.com
Web site: www.transcell.com

Standard Features and Options**Standard Features:**

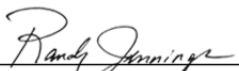
- Number of Wires: 4
- Excitation Voltage: 10 VDC
- Nominal Output: 3 mV/V

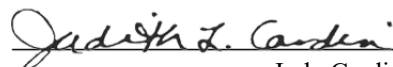
The specific model designation is BSS-XXXX, where XXXX represents the capacity in pounds. A SS suffix to the model designation represents stainless steel construction.

Model	$v_{\min}$ (lb)	Capacity	Minimum Dead Load (lb)
BSS-250	250	0.063	0
BSS-500	500	0.125	0
BSS-750	750	0.188	0
BSS-1000	1 000	0.250	0
BSS-1500	1 500	0.375	0
BSS-2000	2 000	0.500	0
BSS-2500	2 500	0.625	0

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: May 27, 1997

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) 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.

**Transcell Technology, Inc.**

Load Cell / BSS Series

Application: The load cells may be used in Class III scales for single 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, $v_{\min}$ 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 on the load cell. All other required information must be on an accompanying document including the serial number of the load cell.

Test Conditions: One 500-lb capacity load cell was tested at NIST using dead weights as the reference standard. The data were analyzed for single load cell applications. The cell was tested over a temperature range of -10 °C to 40 °C. Three tests were run on the 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, 1997. NCWM, Publication 14: Weighing Devices, 1997.

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

Information Reviewed By: Thomas M. Ahrens (NIST)