National Conference on Weights and Measures
15245 Shady Grove Road, Suite 130 • Rockville, MD 20850

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

For:

Load Cell
Single Ended Bending Beam
Model Family: BCA-XL Series*
n_{max}: 5000
Capacity: See Below

Accuracy Class: III

Submitted by:

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Standard Features and Options

*The "X" designation in the model number represents the load cell capacity. The specific load cells in the family covered by this certificate are identified by the model designation and the load cell capacity listed below.

Model	Capacity (kg)	v_{min} (kg)	Minimum Dead Load (kg)
BCA-5L	5	0.0006	0
BCA-10L	10	0.0012	0
BCA-15L	15	0.0018	0
BCA-20L	20	0.0024	0
BCA-30L	30	0.0036	0
BCA-50L	50	0.0060	0
BCA-75L	75	0.0090	0
BCA-100L	100	0.0120	0

Temperature Range: -10 to 40 °C (14 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: April 12, 1999

Louis E. Straub
Chairman, NCWM, Inc.

G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: April 15, 1999

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

CAS Corporation
Single Ended Bending Beam Load Cell
Model: BCA-XL 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, 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 must be on an accompanying document including the serial number of the load cell.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 96-131 and is issued without additional testing to correct a typographical error in the test conditions of the original certificate. The *corrected* previous test conditions are listed below for reference.

Certificate of Conformance Number 96-131: Two 50- kg and two 10-kg capacity load cells were tested at the California NTEP laboratory using dead weights as the reference standard. The data were analyzed for single 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.

Type Evaluation Criteria Used: NIST Handbook 44, 1996 Edition

Tested By: Gary Castro (CA) and Norman Ingram (CA) 96-131; L. T. Sebring (NIST) 96-131A1