



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:
Load Cell
Double-end Beam
Model: DE-CG Series
 n_{\max} : 10 000
Capacity: 40 000 to 125 000 lb
Accuracy Class: III L Multiple Cell

***Submitted By: Contact Info. Updated: December 09**
Coti Global Sensors, Inc.
5709 Highway 53
Harvest, AL 35749
Tel: 256-852-9900
Fax: 256-852-9903
Contact: Amy Allen
Email: amy@cotiglobal.com
Web site: www.cotiglobal.com

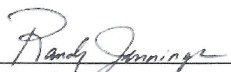
Standard Features and Options


Standard Features:

- Alloy Steel Construction
- Method of Sealing: Potted with Metal Cover
- Number of Wires: 4 wires
- Excitation Voltage: 10 VDC
- Nominal Output: 3.0 mV/V
- Bridge Resistance Input Nominal: 700 ohms

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.


Judy Cardin
Chairman, National Type Evaluation Program Committee
Issued: December 22, 2009

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Coti Global Sensors, Inc.

Load Cell / Double-end Beam

Application: The load cells may be used in Class III L scales, as indicated below, 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 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, tamper evident, identification badge containing the manufacturer, model designation, and serial number is located on the load cell. All other required information, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

Model	Capacity (lb)	v_{\min} (lb)	Minimum Dead Load (lb)
DE-CG-5223, DE-CG-BLC-2, DE-CG-80210	40 000	2.0	2000
DE-CG-5223*, DE-CG-BLC-2, DE-CG-80210	50 000	2.5	2500
DE-CG-5223, DE-CG-BLC-2, DE-CG-80210	60 000	3.0	3000
DE-CG-5223, DE-CG-BLC-2, DE-CG-80210	65 000	3.25	3250
DE-CG-5223, DE-CG-BLC-2, DE-CG-80210	75 000	3.75	3750
DE-CG-5223, DE-CG-BLC-2, DE-CG-80210	100 000	5.0	5000
DE-CG-5223, DE-CG-BLC-2, DE-CG-80210	125 000	6.25	6250

* Load Cells Submitted for Evaluation

Test Conditions: This certificate supersedes Certificate of Conformance number 06-077A1 and is issued to indicate transfer of the NTEP Certificate of Conformance from Coti, Inc. to Coti Global Sensors, Inc. The NTEP Certificate of Conformance 06-077A1, though inactive, remains in effect to cover those devices previously sold and installed under the original name. Previous test information and documentation provided by the company was reviewed. The test conditions for the original type evaluation are listed below for reference.

Certificate of Conformance Number 06-77A1: This Certificate of Conformance supersedes Certificate of Conformance Number 06-077 and is issued to include additional capacities to the family of load cells. This is in accordance with NTEP policy on range of capacity of a family of load cells. No additional testing was required.

Certificate of Conformance Number 06-077: Two model CI-5223 50 000 lb 3 mV/V capacity load cells were submitted and tested at NIST Force Group 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, 2006. NCWM, Publication 14: Weighing Devices, 2006.

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) 06-077, 06-077A1, J. Truex (NCWM) 08-077

Example of Device:



Model DE-CG-5223