



NATIONAL TYPE EVALUATION PROGRAM

*Certificate of Conformance*  
*for Weighing and Measuring Devices*

**For:**

Load Cell  
Single-end Bending Beam, Compression  
Model: CG-WB Series  
 $n_{\max}$ : Class III Multiple Cell 4 000  
Class III L Multiple Cell 10 000  
Capacity: 2 500 to 60 000 lb

**\*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](mailto:amy@cotiglobal.com)  
Web site: [www.cotiglobal.com](http://www.cotiglobal.com)


**Standard Features and Options**


**Standard Features:**

- Stainless Steel Construction
  - Method of Sealing: Potted with Metal Cover
  - Number of Wires: 4 wires
  - Excitation Voltage: 10 VDC
  - Nominal Output: (see page 2)
- Bridge Resistance Input Nominal: 350 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**

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.



**Coti Global Sensors, Inc.**

**Load Cell / CG-WB Series**

**Application:** The load cells may be used in Class III or 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)	Class	$n_{\max}$	$v_{\min}$ (lb)	Output (mV/V)	Minimum Dead Load (lb)
CG-WB-SS, CG-WBL	2500	III - M	4000	0.35	2	88
CG-WB-SS, CG-WBL	2500	III L - M	10 000	0.15	2	88
CG-WB-SS	5000	III - M	4000	0.70	2	88
CG-WB-SS	5000	III L - M	10 000	0.30	2	88
CG-WB-SS	6000	III L - M	10 000	0.36	3	88
CG-WB-SS	10 000*	III - M	4000	1.40	2	88
CG-WB-SS	10 000*	III L - M	10 000	0.60	2 or 3	88
CG-WB-SS	15 000*	III L - M	10 000	0.9	3	88
CG-WB-SS	20 000	III L - M	10 000	1.20	3	88
CG-WB-SS	25 000	III - M	4000	3.50	2	88
CG-WB-SS	25 000	III L - M	10 000	1.50	2 or 3	88
CG-WB-SS	37 500	III L - M	10 000	2.25	3	88
CG-WB-SS	50 000	III L - M	10 000	3.00	3	88
CG-WB-SS	60 000	III L - M	10 000	3.60	3	88
CG-WB-SS	5000	III L - M	10 000	0.30	2	88

\* Load Cells Submitted for Evaluation

**Test Conditions:** This certificate supersedes Certificate of Conformance number 08-082 and is issued to remove the CG-WB-SSW models. It was determined that the CG-WB-SSW models had not undergone sufficient evaluation and testing to be covered by the certificate. The test conditions for the original type evaluation are listed below for reference.

**Certificate of Conformance Number 08-082:** This certificate supersedes Certificate of Conformance number 05-043A1 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 05-043A1, 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.

**Certificate of Conformance Number 05-043A1:** This certificate supersedes Certificate of Conformance Number 05-043 and is issued to include additional capacities and an output of 3 mV/V for certain models. Two 15 000 lb 3mV/V capacity load cells were tested at NIST 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.

**Certificate of Conformance Number 05-043:** Two 10 000 lb 2 mV/V capacity load cells were tested at NIST 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.



**Coti Global Sensors, Inc.**

Load Cell / CG-WB Series

**Evaluated By:** NIST Force Group, NIST Office of Weights and Measures, 05-043, 05-043A1

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2004. NCWM, Publication 14: Weighing Devices, 2004.

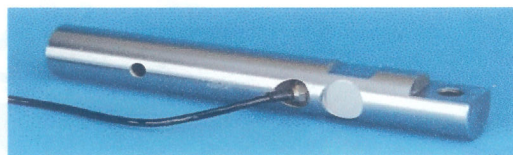
**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

**Information Reviewed By:** S. Patoray (NCWM), L. Bernetich (NCWM), 05-043, 05-043A1; J. Truex (NCWM) 08-082; J. Truex (NCWM) 08-082A1

**Example of Device:**



Model CG-WB



Model CG-WBL