



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Load Cell  
Type "S" Load Cell  
Model: CGSB  
 $n_{max}$ : Single Cell, Class II 5 000 / Single Cell, Class III L 10 000  
Capacity: 250 lb to 20 000 lb  
Accuracy Class: III / III L

**Submitted By: Contact Info. Updated Oct. 2014**

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**Standard Features and Options**

**Standard Features:**

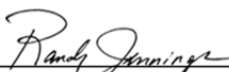
- 4-wire Design
- Nominal Output: 3 mV/V

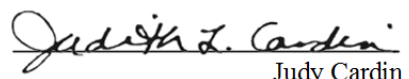
Model	Capacity (lb)	Class III $v_{min}$ (lb)	Class III L $v_{min}$ (lb)	Minimum Dead Load (lb)
CGSB-250	250	0.012	0.010	5
CGSB-300	300	0.015	0.012	6
CGSB-500*	500	0.025	0.020	10
CGSB-750	750	0.038	0.030	15
CGSB-1000*	1000	0.050	0.040	20
CGSB-1500	1500	0.075	0.060	30
CGSB-2000	2000	0.100	0.080	40
CGSB-2500	2500	0.125	0.100	50
CGSB-3000	3000	0.300	0.120	60
CGSB-5000	5000	0.500	0.200	100
CGSB-7500	7500	0.750	0.300	150
CGSB-10 000*	10 000	1.000	0.400	200
CGSB-15 000	15 000	1.500	0.600	300
CGSB-20 000	20 000	2.000	0.800	400

\* Two Load Cells of Each Capacity Submitted for Evaluation

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: December 23, 2009

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**Coti Global Sensors, Inc.**

## Load Cell / CGSB

**Application:** The load cells may be used in Class III and III L 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, if not marked on the load cell, must be on an accompanying document including the serial number of the load cell.

**Test Conditions:** This certificate supersedes Certificate of Conformance number 99-025 and is issued to indicate transfer of the NTEP Certificate of Conformance from Coti, Inc. to Coti Global Sensors, Inc. and the change of model numbers. 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 99-025:** This Certificate is issued based on the following tests and upon information provided by the manufacturer. Two 500-lb, two 1000-lb, and two 10 000-lb capacity load cells were tested using dead weights as the reference standard. The data were analyzed for single and multiple load cell applications. The load cells were tested at an excitation voltage of 10 V dc. 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, 1999. NCWM, Publication 14: Weighing Devices, 1999.

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

**Information Reviewed By:** J. Truex (NCWM)

**Example of Device:**