



NATIONAL TYPE EVALUATION PROGRAM

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

**For:**

Load Cell  
Double-Ended Shear Beam, Compression  
Model: CG-STR Series (see page 2)  
 $n_{\max}$ : Multiple Cell 10 000  
Capacity: 20 000 lb to 200 000 lb  
Accuracy Class: III L

**\*Submitted By: Contact Info. Updated: December 09**

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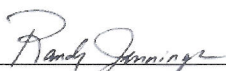
**Standard Features and Options**

**Standard Features:**

- Alloy Steel Construction
- Method of Sealing: Potted with Metal Cover
- Number of Wires: 4 wires
- Excitation Voltage: 15 VDC maximum
- Nominal Output: 3.0 mV/V
- Bridge Resistance Input Nominal: 700 - 800 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

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**Coti Global Sensors, Inc.****Load Cell / CG-STR Series**

**Application:** The load cells may be used in Class III L scales 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)
CG-STR, CG-STR-1	20 000	1.20	2000
CG-STR, CG-STR-1	25 000	1.50	2500
CG-STR, CG-STR-1	30 000	1.80	3000
CG-STR, CG-STR-1	40 000	2.40	4000
CG-STR**, CG-STR-1	50 000	3.00	5000
CG-STR, CG-STR-1	60 000	3.60	6000
CG-STR, CG-STR-1	65 000	3.90	6500
CG-STR, CG-STR-1	75 000	4.50	7500
CG-STR, CG-STR-1	100 000	6.00	10000
CG-STR, CG-STR-1	125 000	7.50	12500
CG-STR, CG-STR-1	150 000	9.00	15000
CG-STR, CG-STR-1	200 000	12.00	20000

\*\* Two Load Cells Tested of This Capacity

**Test Conditions:** This certificate supersedes Certificate of Conformance number 03-079 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 03-079, 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 03-079:** Two 50 000-lb 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.

**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, 2003. NCWM, Publication 14: Weighing Devices, 2003.

**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. Bernetch (NCWM) 03-079; J. Truex (NCWM) 08-081



**Coti Global Sensors, Inc.**

Load Cell / CG-STR Series

**Examples of Device:**



Model CG-STR



Model CG-STR-1