



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Load Cell  
Column, Compression  
Model: CG-26SX Series (see page 2)  
 $n_{max}$ : Multiple Cell 10 000  
Capacity: 20 000 to 200 000 lb  
Accuracy Class: III L

**Submitted By:**


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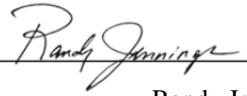
**Standard Features and Options**

- Stainless Steel Construction
- Method of Sealing: Hermetic, Welded Metal Canister
- Number of Wires: 4 wires
- Excitation Voltage: 10 VDC
- Nominal Output: 2.0 mV/V
- Bridge Resistance, Input Nominal: 350, 700, 1000 ohms

Temperature Range: 0 °C to 30 °C (32 °F to 86 °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.

  
Tim Tyson  
Chairman, NCWM, Inc.

  
Randy Jennings  
Chairman, National Type Evaluation Program Committee  
Issued: June 13, 2011

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**Coti Global Sensors, Inc.**

Load Cell / CG-26SX 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 and limited temperature range 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.

Models	Capacity (lb)	$v_{min}$ (lb)	Minimum Dead Load (lb)
CG-26S	20 000	1.20	1200
CG-26S1	25 000	1.50	1500
CG-26S2	26 455	1.59	1587
CG-26S4	30 000	1.80	1800
CG-26S6: All Capacities	33 069	1.98	1984
CG-26S7: All Capacities	35 273	2.12	2116
	40 000	2.40	2400
	44 092	2.65	2646
	49 603	2.98	2976
	50 000*	3.00	3000
	56 000	3.36	3360
	60 000	3.60	3600
	65 000	3.90	3900
	66 138	3.97	3968
	75 000	4.50	4500
	88 183	5.29	5291
	90 000	5.40	5400
	100 000	6.00	6000
	110 229	6.61	6614
	125 000	7.50	7500
	132 275	7.94	7937
	150 000	9.00	9000
	200 000	12.00	12000

\* Two Load Cells Tested

**Test Conditions:** This certificate supersedes Certificate of Conformance number 08-083 and is issued based upon information received by the manufacturer to add the GC26S7 series. The only difference in the Model CG-26S7 is a grooved end for mounting purposes. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 08-083:** This certificate supersedes Certificate of Conformance number 04-081 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 04-081, 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 04-081:** Two 50 000 lb load cells were tested at NIST using dead weights as the reference standard. The data were analyzed for Class III L multiple load cell applications. The cells were evaluated over a limited temperature range of 0°C to 30°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 performed.

**Evaluated By:** T. Bartel (NIST Force Group) 04-081



**Coti Global Sensors, Inc.**

Load Cell / CG-26SX Series

**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, L. Bernetch (NCWM) 04-081; J. Truex (NCWM) 08-083, 08-083A1

**Examples of Device:**



Model CG-26S



Model CG-26S1/CG-26S2



Model CG-26S4



Model CG-26S6



Model CG-26S7