



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Load Cell
 Double-ended, Center Load
 Model: CG-DB50000S
 n_{max} Class III L / Multiple Cell: 10 000
 Capacity: 35 000 lb to 75 000 lb
 Accuracy Class: III L

Submitted By:

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Standard Features and Options

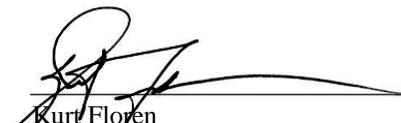
- Nominal Output: 2 mV/V
- 4-wire Design
- Material: Stainless Steel
- Nominal Input Impedance: 700 ohms

Model Number	Capacity (lb)	Multiple Cell Class III L v_{min} (lb)	Minimum Dead Load (lb)
CG-DB50000S	35 000	1.0	350
CG-DB50000S	50 000*	1.4	350
CG-DB50000S	75 000	2.1	350


*Capacity Evaluated

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.



Kurt Floren
 Chairman, NCWM, Inc.



Jim Tyson
 Chairman, National Type Evaluation Program Committee
 Issued: August 18, 2011

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**Coti Global Sensors, Inc.**

Load Cell / CG-DB5000S

Application: The load cells may be used in Class IIIIL multiple cell applications consistent with the model designations, number of scale divisions, and parameters specified in this certificate. 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, serial number, capacity, v_{\min} accuracy class and certificate number is located on the load cell. All other required information must be on an accompanying document including the serial number of the load cell.

Test Conditions: 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. 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: K. Chesnutwood (NIST Force Group)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2011. NCWM, Publication 14: Weighing Devices, 2011.

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:

