NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Load Cell
Single-Ended Shear Beam, Compression
Model: CG-23, CG-SB, CG-MK15, CG-SSB, CG-743 & CG-745 (formerly SE-CG Series)
nmax: Multiple Cell 5 000
vmin: (see page 2)
Capacity: 250 lb to 20 000 lb
Accuracy Class: III

Submitted By: **Contact Info. Updated Oct. 2014**
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Standard Features and Options

Standard Features:

- Alloy Steel or Stainless Steel Construction
- Method of Sealing: Potted with Metal Cover
- Number of Wires: 4 wires
- Excitation Voltage: 10 VDC
- Nominal Output: 3.0 mV/V or 2.0 mV/V

Bridge Resistance Input Nominal: 350 Ohms

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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

John Gaccione
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, National Type Evaluation Program Committee

Issued: April 17, 2014

Coti Global Sensors, Inc.

Load Cell / CG-23, CG-SB, CG-MK15, CG-SSB, CG-743 & CG-745 Series

Application: The load cells may be used in Class III 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.

Models	Capacity (lb)	v_{min} (lb)	Minimum Dead Load (lb)
CG-23	250	0.038	10
CG-23-SS	500*	0.075	10
CG-23-LP	1000	0.14	10
CG-23-SSW	1250	0.175	10
CG-SB3	1500	0.21	10
CG-MK15	2000	0.28	10
CG-SB250	2500	0.35	50
CG-SSB	3000	0.42	50
CG-743	4000	0.56	88
CG-745	5000*	0.70	88
	10 000	1.40	88
	15 000	2.10	88
	20 000	2.80	88

* Two Load Cells Tested

Test Conditions: This certificate supersedes Certificate of Conformance Number 08-074 and was issued to recognize a change to the model number designations by removing the SE prefix. No additional testing was deemed necessary. Contact information was also updated. Previous test conditions are listed below for reference.

Certificate of Conformance Number 08-074: Two 500 lb capacity and two 5000 lb 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 08-074

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2014. NCWM, Publication 14: Weighing Devices, 2014.

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. Bernetich (NCWM) 04-066; J. Truex (NCWM) 08-074, 08-074A1

Coti Global Sensors, Inc.

Load Cell / CG-23, CG-SB, CG-MK15, CG-SSB, CG-743 & CG-745 Series

Example of Device: