NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Weighing/Load Receiving Element
Electronic
Models: CG-FS Series
n_{max}: 5 000
e_{min}: 0.2 lb (0.1 kg)
Capacity: 1000 to 10 000 lb (440 to 4400 kg)
Platform: 2 ft x 2 ft to 4 ft x 4 ft **
Accuracy Class: III

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

** Platform: Device evaluated 4 ft x 4 ft. The device may have platform areas up to but not larger than evaluated (16 sq ft), with lengths or widths no greater than 125 percent of either dimension tested. (e. g. 5 ft x 3 ft)

See page 2 for models and capacities.

Construction:
- Mild Steel or Stainless Steel

Load Cell:
- Four Load Cells / Device
- Junction Box
- Load Cells Used were Coti Global Sensors Manufacturing, Model SE-CG Series (NTEP CC 08-074)

Temperature Range: -10 ºC to 40 ºC (14 ºF to 104 ºF)

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.

Stephen Benjamin
Chairman, NCWM, Inc.

Kurt Floren
Chairman, National Type Evaluation Program Committee
Issued: March 5, 2013

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Coti Global Sensors, Inc.

Weighing/Load Receiving Element / CG-FS Series

Application: General purpose weighing/load receiving element when connected to a certified and compatible indicating element.

Models and Capacities:

Model	Capacity x d (lb)	Capacity x d (kg)
CG-FS 2' x 2'	1000 x 0.2	450 x 0.1
CG-FS 2' x 2'	2 000 x 0.5	900 x 0.2
CG-FS 2' x 2'	2 500 x 0.5	1000 x 0.2
CG-FS 2' x 2'	3 000 x 1.0	1350 x 0.5
CG-FS 2' x 2'	4 000 x 1.0	1800 x 0.5
CG-FS 2' x 2'	5 000 x 1.0	2250 x 0.5
CG-FS 2' x 2'	10 000 x 2.0	4500 x 1.0
CG-FS 3' x 3'	1000 x 0.2	450 x 0.1
CG-FS 3' x 3'	2 000 x 0.5	900 x 0.2
CG-FS 3' x 3'	2 500 x 0.5	1000 x 0.2
CG-FS 3' x 3'	3 000 x 1.0	1350 x 0.5
CG-FS 3' x 3'	4 000 x 1.0	1800 x 0.5
CG-FS 3' x 3'	5 000 x 1.0	2250 x 0.5
CG-FS 3' x 3'	10 000 x 2.0	4500 x 1.0
CG-FS 4' x 4'	1000 x 0.2 *	450 x 0.1
CG-FS 4' x 4'	2 000 x 0.5	900 x 0.2
CG-FS 4' x 4'	2 500 x 0.5	1000 x 0.2
CG-FS 4' x 4'	3 000 x 1.0	1350 x 0.5
CG-FS 4' x 4'	4 000 x 1.0	1800 x 0.5
CG-FS 4' x 4'	5 000 x 1.0 *	2250 x 0.5
CG-FS 4' x 4'	10 000 x 2.0 *	4500 x 1.0

*capacities tested

Identification: The engraved identification badge is riveted to the side of the platform.

Sealing: The load receiving element has no metrological functions that require the use of a security seal. Calibration and configuration of the scale are done through the indicator and sealed according to the manufacturer's instructions for the particular indicator used. Additionally, the load cell junction box can be sealed with a wire security seal threaded through two screws in the cover.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 08-071A3 and is issued to include additional weighing/load receiving elements in the CG-FS series. The table of models and capacities includes additional platform sizes. Per NCWM Publication 14 technical policy, no additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 08-071A3: This Certificate supersedes Certificate of Conformance Number 08-071A2 and is issued to include additional weighing/load receiving elements in the CG-FS series. The model CG-FS 4 x 4, (capacity 10 000 x 2 lb) was submitted for evaluation. The weighing/load receiving element was interfaced with a Transcell Technology indicating element, Model Number TI-500E (NTEP CC Number 94-080A2).The emphasis of the evaluation was on the device design, marking requirements, operation, durability and performance.Several increasing/decreasing load tests and shift tests were performed. After conducting the initial evaluation, an appropriate permanence test was conducted after which the device was subjected to the same tests conducted during the initial evaluation.

Certificate of Conformance Number 08-071A2: This Certificate supersedes Certificate of Conformance Number 08-071A1 and is issued to include additional weighing/load receiving elements in the CG-FS series. The model CG-FS 4 x 4, (capacity 1000 x 0.2 lb) was submitted for evaluation. The weighing/load receiving element was interfaced with a Transcell Technology indicating element, Model Number TI-500E (NTEP CC Number 94-080A2).The emphasis of the evaluation was on the device design, marking

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Weighing/Load Receiving Element / CG-FS Series

requirements, operation, durability, performance, and compliance with influence factor requirements.Several increasing/decreasing load tests and shift tests were performed. The device was tested over a temperature range of -10°C to 40°C (14°F to 104°F). A load of approximately one-half capacity to full capacity was applied to the weighing /load receiving element over 300 times in the field. Approximately 30 days after these repetitive weighing operations, the weighing/load receiving element was evaluated for post-permanence accuracy, corner shift test, discrimination test and several increasing/decreasing tests were performed.

Certificate of Conformance Number 08-071A1: This Certificate supersedes Certificate of Conformance Number 08-071 and is issued to correct the model designation from CI-FS series to CG-FS series. The Certificate is issued without further testing.

Certificate of Conformance Number 08-071: A 5 000 lb, 4 ft x 4 ft (Model CG-FS 4x4) 5 000 x 1 lb was submitted for evaluation. The weighing/load receiving element was interfaced with a Transcell Technology Model TI-500E indicating element (NTEP CC Number 94-080A2). The emphasis of the evaluation was on device design, marking requirements, and performance. Several increasing/decreasing load tests (up to 5 000 lb) and corner shift tests were conducted using 1 250 lb of certified weights during the initial evaluation. After conducting the initial evaluation, an appropriate permanence test was conducted after which the device was subjected to the same tests conducted during the initial evaluation.

Evaluated By:T. Davis (KS) 08-071, 08-071A3; S. Boyd (CA) 08-071A2

Type Evaluation Criteria Used:NIST,Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2013. NCWM,Publication 14: Weighing Devices, 2012

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) 08-071, 08-071A1, 08-071A2, 08-071A3, 08-071A4

Example of Device:

