



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:

Multiple Dimensions Measuring Device
Static Dimensioning Only
Models: CSN840 and CSN840XL
Maximum: (see below)
Minimum: (see below)
d_{min}: (see below)

Submitted By:

Mettler-Toledo, LLC
1150 Dearborn Drive
Worthington, OH 43085
Tel: 614-438-4387
Fax: 614-438-4355
Contact: Scott Davidson
Email: scott.davidson@mt.com
Web site: www.mt.com

Standard Features and Options

For dimensioning of static palletized freight.
System consists of three scanners. See photos under example of devices.

Dimensioning Designation: CNS840 d_{min}: 0.25 inch (1cm)

Dimensions	Minimum	Maximum
Length	12 inches (30 cm)	72 inches (183 cm)
Width	8 inches (20 cm)	72 inches (183 cm)
Height	3 inches (12 cm)	102 inches (260 cm)

Dimensioning Designation: CNS840XL d_{min}: 0.5 inch (1cm)

Dimensions	Minimum	Maximum
Length	12 inches (30 cm)	98 inches (249 cm)
Width	8 inches (20 cm)	98 inches (249 cm)
Height	6 inches (12 cm)	102 inches (260 cm)

Standard Features:

- RS232 Communication Port
- Ethernet
- Protrusion Declared: 3 inches on any axis

Software Version ID:

- 1.6.6.4 or Higher

Temperature Range: 0°C to 40°C (32°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.

John Gaccione
Chairman, NCWM, Inc.

Stephen Benjamin
Chairman, National Type Evaluation Program Committee
Issued: June 12, 2014

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) does not approve, recommend or endorse any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.



Mettler-Toledo, LLC

Multiple Dimension Measuring Device / CSN840 and CSN840XL

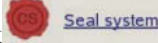
Application: The CSN840 and CS840XL are static dimension measurement instruments that dimension palletized goods.

Identification: The required information appears on a “void” adhesive badge attached to the side of the dimensioning device housing.


Sealing: The devices are sealed using a category 3 audit trail.

Sealing information is found in the "System Configuration" page of the main menu of the Master Dimensioner. When the system is sealed legal for trade it is not possible to change any calibration or configuration parameters without incrementing an event counter and creating an entry in the event log.

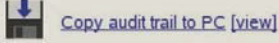
To Seal the System:

1. Select the "Seal System" link 
2. Any changes to calibration or configuration parameters will be logged in the audit trail.

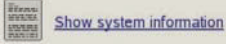
To Unseal the System:

1. Select "Unseal System" link 
2. Once system is unsealed changes to calibration and configuration parameters can be changed, any changes will be logged in the audit trail.

To Gain Access to the Audit Trail:

1. Select "Copy audit trail to PC view" link 
2. Selecting this link will enable the audit trail to be downloaded to a PC on site as a test file.
3. The file can then be printed to a printer on site.
4. Selecting view will display the audit trail on the screen.

To Verify the System Is Sealed:

1. Select the "Show system information" icon 
2. Selecting this link will bring up a screen that shows information for each dimensioner unit in the system.
3. The sealing status of the unit will show Yes/No.

To Return to the Dimensioning Screen:

1. Select "Back" link 

Test Conditions: This Certificate supersedes Certificate of Conformance 09-076PA1 and is issued to increase the maximum dimensions to 98 inches for both length and width. Several measurements were performed near maximum, near minimum, and near mid-range for the range listed. No further testing was deemed necessary. The previous test conditions are listed below for reference.

Certificate of Conformance Number 09-076PA1: This Certificate supersedes Certificate of Conformance 09-076P and is issued to add the model name CSN840XL and increase the maximum dimensions for length, width and height. Several measurements were performed near maximum, near minimum, and near mid-range for the range listed. The model CSN840XL is identical to existing model currently approved.

Certificate of Conformance Number 09-076P: A Mettler-Toledo model CSN840.3 was submitted for evaluation. The emphasis of the evaluation was on device design, marking, operation, and compliance with requirements. Several measurements were performed near maximum, near minimum, and near mid-range for the range listed. No temperature test deemed necessary, since the dimensioning module has been previously evaluated reference test results for the model CSN810. The test results were reviewed for the model CSN810 (Certificate of Conformance Number 05-121PA1).

NOTE: This Certificate is issued as a provisional NTEP Certificate of Conformance (CC). This evaluation is based on the current draft checklist, procedures and technical policy contained in NCWM Publication 14 for this device type. When work on the NCWM



Mettler-Toledo, LLC

Multiple Dimension Measuring Device / CSN840 and CSN840XL

Publication 14 section for this device is completed, the test report and this NTEP CC will be reviewed. If all current requirements have been met by this evaluation, the provisional status will be removed.

Evaluated By: T. Lucas (OH) 09-076P; M. Kelley (OH) 09-076PA1; J. Morrison (OH) 09-076PA2

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

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) 09-076P, 09-076PA1, 09-076PA2

Examples of Device:



Models CSN840 and CSN840XL