



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Multiple Dimension Measuring Device
 Static
 Model: iDimension LTL, LTL XL, PWD, and Flex
 Maximum: see table below
 Minimum: see table below
 d_{min} : 0.5 inches
 Software version: See Standard features and options section

Submitted By:

Rice Lake Weighing Systems
 230 West Coleman Street
 Rice Lake, WI 54868
 Tel: 715-234-9171
 Fax: 715-234-6967
 Contact: Derrick Bender
 Email: dbender@ricelake.com
 Website: www.ricelake.com

Standard Features and Options

Dimensioner model: LTL: Drop & Clear application, using 5 sensing heads (object on the floor)

Dimensions	Minimum	Maximum
Length, Width, and Height	12 inches (30 cm)	96 inches (243 cm)

Dimensioner model: LTL XL: Drop & Clear using 8 sensing heads (object on the floor)

Dimensions	Minimum	Maximum
Length	12 inches (30 cm)	144 inches (365 cm)
Width and height	12 inches (30 cm)	96 inches (243 cm)

Dimensioner model: LTL and LTL XL: Stop & Go using 5 or 8 sensing heads (object on a forklift)

Dimensions	Minimum	Maximum
Length and width	12 inches (30 cm)	72 inches (182 cm)
Height	12 inches (30 cm)	84 inches (213 cm)

Dimensioner model: PWD and Flex using 4 or 5 sensing heads (may be used with or without weighing element)

Dimensions	Minimum	Maximum
Length Width and Height	6 inches (15 cm)	72 inches (182 cm)

Dimensioner model: Flex using 4 or 5 sensing heads

Dimensions	Minimum	Maximum
Length and width	12 inches (30 cm)	72 inches (182 cm)
Height	12 inches (30 cm)	96 inches (243 cm)

Dimensioner model: Flex: Stop & Go using 4 or 5 sensing heads (object on a forklift)

Dimensions	Minimum	Maximum
Length and width	12 inches (30 cm)	60 inches (152 cm)
Height	12 inches (30 cm)	84 inches (213 cm)

Standard Features: 100 - 240 VAC power, Ethernet, Option remote display via a web page

Software Version ID: (LTL all models) 5.0.0.2654 or Higher and 6.0.3.3576 or higher (PWD) 4.12.0.2765 or higher and 6.0.3.3576 or higher (Flex) 6.0.3.3576 or higher. **All models on this certificate can use software version 6.0.3.3576 or higher.**

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.

Mahesh Albuquerque
 Chair, NCWM, Inc.

Ivan Hankins
 Chair, NTEP Committee
 Issued: July 13, 2023

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.



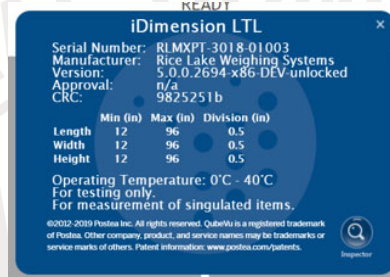
Rice Lake Weighing Systems

Multiple Dimension Measuring Device / iDimension LTL, PWD


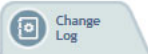
Application: The model iDimension LTL, iDimension LTL XL, iDimension PWD, and iDimension Flex are multiple-dimension measuring devices that dimension palletized freight, irregular, rectangular, and hexahedron shapes of palletized goods. All models perform static dimensioning and the PWD when mounted over an NTEP-certified and compatible weighing load-receiving element can perform static weighing.

Identification: The Certificate of Conformance Number is displayed on the operator screen or on a label permanently attached to the instrument. The remaining required information is located on a separate display screen. To access the identification information, navigate to the home screen (“<ip address>/displays/index.php”), select the tools icon , then select “Demo Display” from the pop-up list. In the Demo Display select the information button . The information screen will now be displayed.

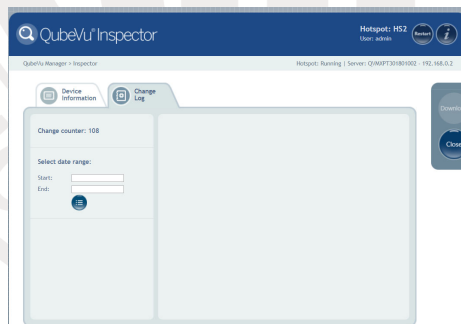
Example of Information Screen:



Sealing: The device is sealed using a category 3 audit trail. 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 access the audit trail, go to the information screen as described above and click on the  inspector icon. Then click on the  change log tab. Enter the start and end dates to view the changes made within the date range.

Date Entry Screen:



Operation: With no object in the measuring field, the display screen will show zeros in the Length, Width, and Height field and displays “Ready” in the status field located in the lower right-hand corner of the screen. See Figure 1. After placing the object in the measurement area, the operator ‘clicks’ on “Ready”, the measurement is taken, and the results displayed. The status field now contains the word “Remove” instructing the operator that the measurement is complete and to remove the object from the measurement field. See Figure 2. Once the object is removed, the display returns to the Ready condition.



Rice Lake Weighing Systems

Multiple Dimension Measuring Device / iDimension LTL, PWD



Figure 1 (Ready condition)

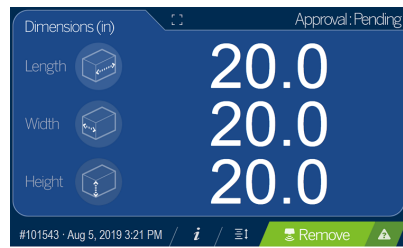


Figure 2 (Measurement Complete)

Test Conditions: This Certificate supersedes the Certificate of Conformance 19-076A2 and is issued to add a new model the iDimension Flex and a new software version for all models. The iDimension Flex consists of components previously evaluated during Certificate of Conformance 19-076A1. A Rice Lake Weighing Systems model iDimension Flex was submitted for evaluation. The emphasis of the evaluation was on device performance. Multiple measurements were performed near and over the maximum, near and under the minimum, and near mid-range for the ranges listed to verify the new software version interacted with the hardware in the correct manner. No additional testing was deemed necessary. Previous test conditions are below for reference.

Certificate of Conformance Number 19-076A2: This Certificate supersedes the Certificate of Conformance 19-076A1 and is issued to increase the maximum measuring width of the Drop & Clear application to 144 inches (365 cm). This increase was accomplished by increasing the number of sensing heads to 8 heads. A Rice Lake Weighing Systems model iDimension LTL XL was submitted for evaluation. The emphasis of the evaluation was on device performance. Several measurements were performed near maximum, near minimum, and near mid-range for the ranges listed. Additional testing of the Stop & Go operation was tested to ensure continued accurate performance. No additional testing was deemed necessary. Previous test conditions are shown below for reference.

Certificate of Conformance Number 19-076A1: This Certificate supersedes the Certificate of Conformance 19-076 and is issued to add a PWD model and Stop & Go functionality on the LTL model. A model iDimension LTL (Stop & Go) and a model PWD with a weighing element were submitted for evaluation. The emphasis of the evaluation was on device design, marking, operation, and performance. Several measurements were performed near maximum, near minimum, and near mid-range for the range listed. Temperature and voltage tests are listed below.

Certificate of Conformance Number 19-076: A Rice Lake Weighing Systems model iDimension LTL was submitted for evaluation. The emphasis of the evaluation was on device design, marking, operation, performance, and compliance with influence factor requirements. Several measurements were performed near maximum, near minimum, and near mid-range for the range listed. The device was also tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Additional tests were conducted using 100 VAC and 240 VAC power supplies.

Evaluated By: D. Flocken (NCWM) 19-076, M. Kelley (OH) 19-076A1, D. Flocken (NCWM) 19-076A2, J. Gibson (NCWM) 19-076A3 (CN 10796)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14 Measuring Devices*, 2021 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: D. Flocken (NCWM) 19-076, 19-076A1, 19-076A2, 19-076A3

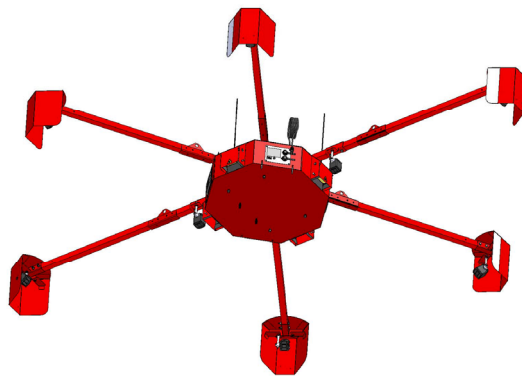


Rice Lake Weighing Systems
Multiple Dimension Measuring Device / iDimension LTL, PWD

Examples of Devices:



Model: iDimension LTL. The iDimension PWD has a similar configuration except that it may not have an overhead sensor.



Model: iDimension LTL XL shown in the 8-sensor configuration.



Model: iDimension Flex



Rice Lake Weighing Systems
Multiple Dimension Measuring Device / iDimension LTL, PWD

Flex Free-Standing



PWD

