NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Multiple Dimension Measuring Device
Stationary
Model: iDimension LTL, LTL XL, and PWD
Maximum: see table below
Minimum: see table below
d_{min}: 0.5 inches

Submitted By:
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Standard Features and Options

Device Description:

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

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

Dimensioning Designation: LTL XL: Drop & Clear application, using 8 sensing heads (object on the floor)

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

Dimensioning Designation: LTL and LTL XL: Stop & Go application, using 5 or 8 sensing heads (object on a forklift)

Dimensions	Minimum	Maximum
Length	14 inches (35 cm)	72 inches (182 cm)
Width	12 inches (30 cm)	72 inches (182 cm)
Height	12 inches (30 cm)	84 inches (213 cm)

Dimensioning Designation: PWD: Static Measuring application using 4 or 5 sensing (may be used with or without weighing element)

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

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

Version ID: 5.0.0.2654 or Higher (LTL), 4.12.0.2765 or higher (PWD)

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.

Hal Prince
Chairman, NCWM, Inc.

Craig VanBuren
Committee Chair, NTEP Committee

Issued: June 4, 2021

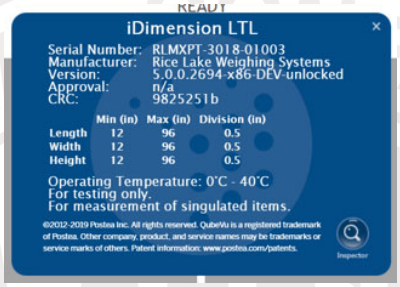
Rice Lake Weighing Systems

Multiple Dimension Measuring Device / iDimension LTL, PWD

Application: The model iDimension LTL, iDimension LTL XL and iDimension PWD are dimension measuring devices that dimension palletized freight, irregulars, rectangular and hexahedron shaped of palletized goods. Static measuring, Weighing and Static measuring.

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:



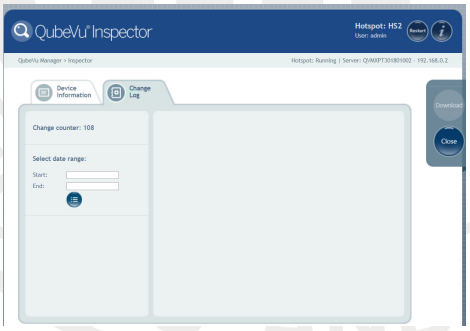
Sealing: The device is sealed using a category 3 audit trial. It is not possible to change any calibration or configuration parameters without incrementing an event counter and creating an entry in the event log.

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)

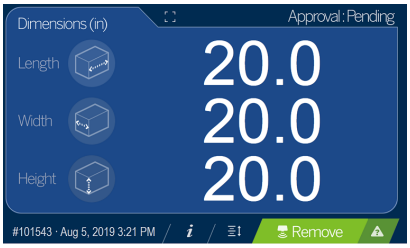


Figure 2 (Measurement Complete)

Test Conditions: This Certificate supersedes 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 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 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

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.

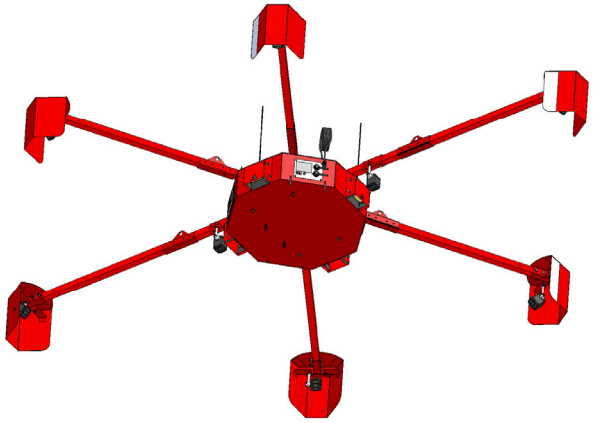
Information Reviewed By: D. Flocken (NCWM) 19-076, 19-076A1, 19-076A2

Example(s) of Device:

Rice Lake Weighing Systems

Multiple Dimension Measuring Device / iDimension LTL, PWD

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.