



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Multiple Dimension Measuring Device  
In-Motion, Volume  
Model: WLS-2  
Maximum: 106 cubic yards  
Minimum: 2.4 cubic yards  
 $d_{min}$ : 0.2 cubic yards  
Software Version: 1.09.08 or higher

**Submitted By:**

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**Standard Features and Options**

- Bi-Directional dimensioning
- Two dimensioning heads
- Category 3 Event logger
- Windows 10 Operating System or higher
- RFID Scanner
- Portable or stationary units
- Programming Language: C++
- API integration to ticketing system
- HD camera
- AC Voltage (120 nominal)

**Dynamic operating range: 2.5 mph (Minimum) to 10 mph (Maximum)**

**Portable and stationary volume dimensioners must be installed in a level condition.**

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *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.

Mahesh Albuquerque  
Chair, NCWM, Inc.

Ivan Hankins  
Chair, NTEP Committee  
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**F.L. Walz Inc.**

Multiple Dimension Measuring Device / WLS-2

**Application:** The WLS-2 is used for the dynamic bi-directional dimensioning of topsoil, fill dirt, aggregate or chipped rock, sand (including concrete and mortar sand), decomposed granite, landscape type rock, and cinders when dynamically passing under the dimensioning system via a dynamic means of conveyance.

**Identification:** The required information is on a pressure sensitive adhesive badge attached to the side of the dimensioning device housing. The information is also located along the periphery of the dimensioner display screen.

**Sealing:** The device is sealed using a category 3 event logger that is accessed by clicking the “ Event Counter” button along the periphery of the screen. After clicking “event counter” a log will display containing the calibration and configuration changes. To exit the counter, click the close button at the bottom of the log.

**Operation:**

- 1) Enter a "User Label" value for this evaluation (ex: Dump Truck, etc).
- 2) Press "New Empty Scan" to initiate an empty scan.
- 3) The empty scan will be stored within the system for use with future loaded scans for that (truck / conveyance / container / hauling unit)
- 4) Press "Start New Evaluation" to initiate a loaded scan.
- 5) Instruct driver to proceed through scan field.
- 6) The volume will automatically calculate after scan completion.
- 7) The volume and loaded scan image will display after calc completion.
- 8) The record will be added to the field evaluation list.
- 9) Repeat Steps 4-8 to add additional measurement evaluations.
- 10) Capture an empty scan for each unit. (truck / conveyance / container / hauling unit / rail car / etc.)
- 12) To export all records (.csv file), press "Save Evaluation".
- 13) To clear all records and start the field evaluation over, press "Reset Evaluation".

**Test Conditions:** The emphasis of the evaluation was on device design, marking, operation, and compliance with influence factor requirements. A F.L. Walz Inc. Model: WLS-2 was submitted for evaluation. Multiple volume measurements were performed dynamically near maximum, near minimum, and near mid-range. Volume measurements were performed dynamically using multiple types of dump trucks at minimum, mid and maximum speeds. All dynamic tests were performed bi-directional. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Tests were conducted using 100 VAC, 120 VAC, and 132 VAC.

**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 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:** J. Gibson (OH) D. Flocken (NCWM)

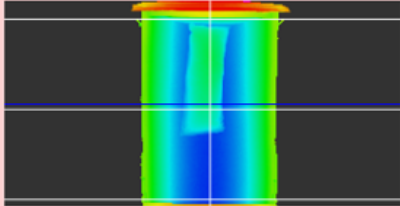
**Type Evaluation Criteria Used:** *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2022 Edition. *NCWM Publication 14: Weighing Devices*, 2022 Edition.





**F.L. Walz Inc.**  
Multiple Dimension Measuring Device / WLS-2

Error Screen



### Error

Status: Speed Error | Maximum (-9252)  
 Timestamp: 10/26/2022, 4:07:40 PM  
 Loaded Scan # 202200000000000090  
 Loaded Speed: 0.0 MPH  
 Empty Scan # 202200000000000065  
 Empty Speed: 0.0 MPH

```

{
  "eid": "202200000000000065",
  "espeed": "0.0",
  "lid": "202200000000000090",
  "lspeed": "0.0",
  "length": "0",
  "width": "0",
  "height": "0",
  "capacity": "0.0",
  "capacityheight": "0",
  "ecenteroffset": "0",
  "lcenteroffset": "0",
  "status": "-9252",
  "volume": "0.0",
  "vol0pct": "0.0",
  "vol1pct": "0.0",
  "vol2pct": "0.0",
  "vol3pct": "0.0",

```

Close

Event counter screen

Event Counter	Timestamp	Parameter Name	Old Value	New Value
INIT	Invalid Date	INIT	INIT	INIT
000000002	11/15/2022 1:13:28 PM	PARAM_INT_29: F2	0	1
000000003	11/15/2022 1:13:56 PM	PARAM_INT_29: F2	1	0
000000004	11/15/2022 1:57:26 PM	Minimum Speed	2.5	2.0
000000005	11/15/2022 2:02:24 PM	Minimum Speed	2.0	2.5
000000006	11/15/2022 2:02:46 PM	Center Tolerance Max	220.0	250.0

Close