NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Multiple Dimension Measuring Device
Static Dimensioning
Model: 3D-A1000 Dimensioner
Maximum: (see below)
Minimum: (see below)
d_{min}: 0.2 in
Software Version: 1.1.5 or Higher

Submitted By:
Cognex
1 Vision Drive
Natick, MA 01760
Tel: 508-650-3293
Contact: Drew Parrett
Email: drew.parrett@cognex.com
Web site: www.cognex.com

Standard Features and Options

For dimensioning of static opaque cuboidal and non-cuboidal objects.
System consists of one dimensioning head and embedded processing software.

Maximum dimensioner mounting height 57 in from base plane.

	Length (in)	Width (in)	Height (in)
Maximum	26	24	24
Minimum	2.4	2.4	2.4
d_{min}	0.2	0.2	0.2

Length = Longest measured horizontal side, Width = Shortest measured horizontal side, Height = Vertical axis

Standard Features:

- Embedded processing & web-based HMI
- 2D image capture + 3D dimensions
- Category 3 Audit Trail
- Infrared Class 1 Laser Projector
- Data Man® Multi-Reader Sync™ for integration with Cognex barcode scanners
- 24-volt DC power supply

Minimum Hardware Requirements:
- Web browser to access HMI.
- Ethernet based communication

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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Craig VanBuren
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, NTEP Committee
Issued: November 25, 2019

Cognex

Multiple Dimension Measuring Device / 3D-A1000 Dimensioner

Application: A static multiple dimension measuring device that dimensions cuboidal and non-cuboidal shaped opaque objects.

Identification: All markings are accessible by clicking the CC number button on the main screen. A pop-up box is displayed containing all the required markings.

Sealing: The Category 3 audit trail information is accessible by clicking the CC number button on the main screen. A pop-up box containing the markings appears, you then click on the "show Audit trail" in the lower left corner.

Operation: This static dimensioning software functions when an operator places a cuboidal or non-cuboidal shaped opaque object within the defined measurement area and initiates a manual triggering of the device.

Test Conditions: The emphasis of the evaluation was on software design, marking, operation, performance and compliance with influence factor requirements. A Cognex model: 3D-A1000 Dimensioner was submitted for evaluation. Several measurements were performed near maximum, near minimum, near mid-range and at the edge and outside the viewing area for the range listed with cuboidal and non-cuboidal objects. The device was also tested over a temperature range of 0 °C to 40 °C (32 °F to 104 °F) and 21.6 VDC and 26.4 VDC.

Evaluated By: J. Gibson (OH)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2019 Edition. *NCWM Publication 14 Measuring Devices*, 2019 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)

Example of Device:

Dimensioning Head

Cognex

Multiple Dimension Measuring Device / 3D-A1000 Dimensioner

Measurement Display Screen