



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
 Digital Electronic
 Model: FG-CWP Series
 Capacity: 30 kg to 150 kg / 66 lb to 330 lb
 n_{max} : 3300
 e_{min} : 0.01kg to 0.05kg / 0.02 lb to 0.1 lb
 Accuracy Class: III

A&D Engineering, Inc.

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Email: jzapien@andweighing.comWebsite: www.andweighing.com**Standard Features and Options****Platter Size:** Small- 300 mm x 380 mm / Large- 370 mm x 500 mm

- Push Button Tare
- Semi-Automatic Zero (Push Button)
- AC / DC External Power Supply
- Gross Display
- Liquid Crystal Display
- Units: Kilogram (kg), Pound (lb), Ounce (oz)
- RS-232 Communication Port
- External Printer
- Motion Detection
- Category 1 Lead and Wire sealing
- Center of Zero Annunciator
- Initial Zero Setting Mechanism (IZSM)

Load Cells Used:

- A&D Model LC-176-30K 30kg x 0.01 kg
- A&D Model LC-176-60K 68kg x 0.02 kg
- A&D Model LC-176-150K 150kg x 0.05 kg

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.

Marc Paquette
 Chair, NCWM, Inc.

Gene Robertson
 Chair, NTEP Committee
 Issued: February 28, 2025

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A&D Engineering, Inc.
Non-Computing Scale / FG Series

Model	Maximum Capacity	e	nmax	Accuracy Class
FG-30KCMWP	30 kg/66 lb/1050 oz	0.01 kg/ 0.02 lb/ 0.5 oz	3300	III
FG-60KCLWP	60 kg/130 lb/ 2100 oz	0.02 kg /0.05 lb/ 1 oz	3000	III
FG-150KCLWP	150 kg/330 lb/5200 oz	0.05 kg/ 0.1 lb/ 2 oz	3300	III
FG-30KACMWP	30 kg/66 lb/1050 oz	0.01 kg/ 0.02 lb/ 0.5 oz	3300	III
FG-60KACLWP	60 kg/130 lb/2100 oz	0.02/0.05 lb/ 1 oz	3000	III
FG-150KACLWP	150 kg/330 lb/5200 oz	0.05 kg/ 0.1 lb/ 2 oz	3300	III

Application: For use in general purpose weighing applications

Identification: The required markings are located on a self-adhesive label affixed to the back housing of the scale and is a tamper proof label that reads void when peeled.

Sealing: The device is sealed by a Category 1 lead and wire seal. The device has two bolts with holes drilled through on the back of the indicator for applying a lead and wire seal, preventing access to a calibration/configuration button.

Test Conditions: This certificate supersedes Certificate of Conformance 24-110 and is issued to lower the lb capacity of two models, the FG-60KACLWP and the FG-60KCLWP. Testing was unnecessary, and previous test conditions are listed below or referenced.

Certificate of Conformance 24-110: The emphasis of the evaluation was on the device design, operation, performance, markings, and compliance with influence factors. Models FG-30KCMWP and FG-150KACLWP were submitted for evaluation. The device was subjected to multiple increasing/decreasing tests, eccentricity, and discrimination testing. Devices were also subjected to testing over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of ½ of capacity was applied to the device over 100 000 times and a repeat of increasing/decreasing, discrimination, and eccentricity tests were performed. The device was tested within a voltage range from 85 VAC to 264 VAC.

Evaluated By: J. Coffey (OH) 24-110 (CN-11112); J. Gibson (NCWM) 24-110A1 (CN 11320)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2024 Edition. *NCWM Publication 14 Weighing Devices*, 2024 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) 24-110; J. Gibson (NCWM) 24-110A1



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Non-Computing Scale / FG Series

Example of Device:

