NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Non-Computing Scale
Digital Electronic
Model: FG Series
n_{max}: 4000
Capacity: See table on page 2*

Accuracy Class: III

Submitted By: Contact Info. Updated May 2024
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Standard Features and Options

Semi-automatic (push button) zero setting mechanism
Initial (IZSM) zero setting mechanism
Automatic (AZSM) zero setting mechanism
Semi-automatic (push button) tare
LCD display
Battery saving feature (auto-shut off)
Battery power supply
AC/DC adapter
Units (lb, kg, oz)

A label stating, "The counting feature is not legal for trade" is attached near the weight display.

Load cell used: A&D Part number LC 150-30 kg, (non NTEP)
A&D Part number LC 150-60 kg, (non NTEP)
A&D Part number LC 150-150 kg (non NTEP)

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.

Gene Robertson
Chair, NCWM, Inc.

Mahesh Albuquerque
Chair, NTEP Committee
Issued: May 3, 2024

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A&D Engineering, Inc.

Non-Computing Scale / FG Series

Application: Non computing scale used for general-purpose weighing applications.

Identification: The required information is on an adhesive badge affixed on the side of the indicating element.

Sealing: The device is sealed on the rear of the display by means of a wire security seal threaded through two thumb screws to prevent access to the calibration switch.

*** Capacities, division sizes, n_{max} and pan sizes**

Model	Capacity x d in lb	Capacity x d in kg	Capacity x d in oz	n_{max}	Pan Size in mm	Comments
FG-30KAM	60 x 0.02	30 x 0.01	960 x 0.5	3000	300 x 380	Display on column
FG-60KAM	150 x 0.05	60 x 0.02	2400 x 1	3000	300 x 380	Display on column
FG-150KAM	300 x 0.1	150 x 0.05	4800 x 2	3000	300 x 380	Display on column
FG-200KAM	400 x 0.1	200 x 0.05	6400 x 2	4000	300 x 380	Display on column
FG-30KBM	60 x 0.02	30 x 0.01	960 x 0.5	3000	300 x 380	no column
FG-60KBM	150 x 0.05	60 x 0.02	2400 x 1	3000	300 x 380	no column
FG-150KBM	300 x 0.1	150 x 0.05	4800 x 2	3000	300 x 380	no column
FG-200KBM	400 x 0.1	200 x 0.05	6400 x 2	4000	300 x 380	no column
FG-60KAL	150 x 0.05	60 x 0.02	2400 x 1	3000	390 x 530	Large pan with column
FG-150KAL	300 x 0.1	150 x 0.05	4800 x 2	3000	390 x 530	Large pan with column
FG-200KAL	400 x 0.1	200 x 0.05	6400 x 2	4000	390 x 530	Large pan with column

Test Conditions: This Certificate superseded Certificate of Conformance Number 05-101 and was issued without additional testing to reactivate Certificate of Conformance 05-101 without lapse. Previous test conditions are listed below for reference.

Certificate of Conformance 05-101: The emphasis of the evaluation was on the device design, operation, marking requirements and compliance with influence factor requirements. For the purpose of the evaluation, a model FG-200KAL, 400 lb x 0.1 lb (200 kg x 0.05 kg) and a model FG-30KAM, 60 lb x 0.02 lb (30 kg x 0.01 kg) were submitted. Several increasing/decreasing load and shift tests were conducted on each scale. The scales were tested over a temperature range of –10 ºC to 40 ºC (14 ºF to 104 ºF). A load of approximately one-half scale capacity was applied to each scale over 100 000 times. The scale was tested periodically during this time. Tests were also conducted with a power supply of 100 VAC to 120VAC, and 5.8 VDC to 10.0 VDC

Evaluated By: T. Lucas (OH), W. West (OH) 05-101; J. Gibson (NCWM) 05-101A1 (CN 11070)

Type Evaluation Criteria Used: NIST Handbook 44, 2005 Edition; NCWM Publication 14, 2005 Edition

Conclusion: The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

Reviewed By: S. Patoray (NCWM), L. Bernetich (NCWM) 05-101; D. Flocken (NCWM) 05-101A1