

National Type Evaluation Program
Certificate of Conformance
for Weighing and Measuring Devices

For:

Bench Scale
Digital Electronic
Model: FG Series
 n_{\max} : 3100
Capacity: See Below
Platform: 11.8" x 15.4"
Accuracy Class: III

Submitted by:

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Standard Features and Options

MODELS	CAPACITY (lb)	CAPACITY (SI)	n_{\max}
FG-150K	300 x 0.1	150 kg x 50 g	3,000
FG-60K	150 x 0.05	60 kg x 20 g	3,000
FG-30K	60 x 0.02	31 kg x 10 g	3,100

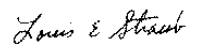
Liquid crystal display
Internal 9V DC battery operation
Semi-automatic tare and zero with motion detection
Automatic zero setting mechanism
Externally selectable weight units (lb/kg)
Automatic power down function

Options: Wall mounting kit
RS-232 interface
AC adapter
Column mounting kit

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) 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.

Effective Date: May 17, 1993



Louis E. Straub
Chairman, NCWM, Inc.



G. Weston Diggs
Chairman, National Type Evaluation Program Committee

Issue date: November 9, 1993

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

A and D Engineering
Digital Electronic Bench Scale
Model: FG Series

Application: General purpose.

Identification: The manufacturer, model, class, and capacity information is listed on the face of the device. The serial number and additional identification information is located on the right side of the indicator and the scale base.

Sealing: The keyboard calibration mode is activated by an internal switch. Access to this switch is sealable with a wire security seal which is inserted through two drilled head screws located on the rear of the weight indicator.

Test Conditions: The Model FG-30K and FG-150K scales were submitted for evaluation. A load of one-half capacity was applied to each scale over 100,000 times with accuracy tests performed periodically. Shift and corner tests were also performed. The scales were tested over a temperature range of -10 to 40 °C (14 to 104 °F) to verify compliance with influence factor, time dependence, and discrimination requirements. Additionally, the devices were tested over a voltage range of 100 to 130 VAC and 5.8 to 12.0 VDC. The results of these tests were within the applicable acceptance tolerances.

Type Evaluation Criteria Used: 1993 Edition, National Institute of Standards and Technology, Handbook 44

Tested By: Ronald Flores (CA)