



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Digital Electronic
Model: FSi Series
 n_{\max} : 3500
Capacity: See table on page 2*

Accuracy Class: III

Submitted By: Contact Info. Updated November 2022

A&D Engineering, Inc.
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Standard Features and Options

Semi-automatic (push button) zero setting mechanism
Initial (IZSM) zero setting mechanism
Automatic zero tracking (AZT)
Semi-automatic (push button) tare
LCD display

AC power
Battery power optional
Battery saving feature (auto-shut off)
Units (kg, g, lb, oz)

Load cell used: A&D Part number LC 120-6K (non NTEP)
A&D Part number LC 120-15K (non NTEP)
A&D Part number LC 120-30K (non NTEP)

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

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 20, 2007

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A&D Engineering, Inc.
Non-Computing Scale / FSi 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 g	Capacity x d in oz	n_{\max}	Pan Size in mm
FS-6Ki/6KiN	15 x .005	6 x .002	6000 x 2	240 x .1	3000	250 x 250
FS-15Ki/15KiN	35 x .01	15 x .005	15000 x 5	560 x .2	3500	250 x 250
FS-30Ki/30KiN	70 x .02	30 x .01	30000 x 10	1120 x .5	3500	380 x 300

Test Conditions: The emphasis of the evaluation was on the device design, operation, marking requirements and compliance with influence factor requirements. For the purpose of this evaluation, a model FS-6Ki (6 kg x 0.002 kg) and a model FS-30Ki (70 lb x 0.02 lb) was submitted. Several increasing/decreasing load and shift tests were conducted on each scale. The scales were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half scale capacity was applied to each scale over 100 000 times. The scales were tested periodically during this time. Tests were also conducted with a power supply of 100 VAC to 130VAC, and 5.8 VDC to 10.0 VDC.

Evaluated By: A. McCoy

Type Evaluation Criteria Used: NIST Handbook 44, 2007 Edition; NCWM Publication 14, 2007 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)



Example FS-30Ki



Example FS-6Ki