

***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:

A&D Engineering
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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 (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.



Judith L. Cardin
Chairman, NCWM, Inc.



Don Onwiler
Chairman, National Type Evaluation Program Committee
Issue date: November 20, 2007

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A & D Engineering
Non-Computing Scale
Model: FS 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