

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

**For:**

Non-Computing Scale  
Digital Electronic  
Model: EKj Series  
 $n_{\max}$ : 6000  
Capacity: See table on page 2\*

Accuracy Class: II

**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 (AZSM) zero setting mechanism  
Semi-automatic (push button) tare  
LCD display

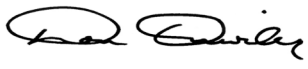
Battery saving feature (auto-shut off)  
Battery power supply  
AC/DC adapter  
Units (g, lb, oz, ozt, ct)

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

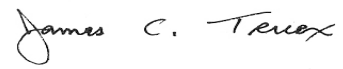
Load cell used: A&D Part number LC-148-300 (non NTEP)  
A&D Part number LC-140-6000 (non NTEP)

Temperature range: 5°C to 35°C (41°F to 95°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.



Don Onwiler  
Chairman, NCWM, Inc.



James C. Truex  
Chairman, National Type Evaluation Program Committee  
Issue date: May 5, 2006

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.

**A & D Engineering  
Non-Computing Scale  
Model: EKj Series**

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

**Identification:** The manufacturer's identification, model number, and serial number are on a pressure sensitive, self-destructive label located on the side of the device.

**Sealing:** The device may be sealed by threading a wire security seal through a tab on the calibration switch access cover and a tab on the upper case of the device. The access cover is located on the back of the device.

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

Model	Capacity (g)	$n_{max}$	e (g)	d (g)	Pan Size in mm
EK-610j	600	6000	.1	.01	110 dia.
EK-6100j	6000	6000	1	.1	133 x 170

**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 the evaluation, a model EK-610j, and a model EK-6100j were submitted. Several increasing/decreasing load and shift tests were conducted on each device. The devices were tested over a temperature range of 5 °C to 35 °C (41 °F to 95 °F). A load of approximately one-half capacity was applied to each device over 100 000 times. The device was tested periodically during this time. Tests were also conducted with a power supply of 100 VAC to 130 VAC, and 5.8 VDC to 9.0 VDC

**Evaluated By:** T. Buck (OH), W. West (OH), T. Lucas (OH)

**Type Evaluation Criteria Used:** NIST Handbook 44, 2006 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)

