

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

For:

Price Computing Floor Scale
Digital Electronic
Model: BK Series
 n_{\max} and e_{\min} : (See Below)
Capacity: (See Below)
Platform Size: 16.5" x 20.5" (419 mm x 521 mm)

Accuracy Class: III

Submitted by:

Atron Systems, Inc.
d/b/a Easy Weigh
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Standard Features and Options

Model	n_{\max}	Capacity x d	e_{\min}
BK-120 +	6000	120 x 0.02 lb	0.02 lb
BK-150	3000	150 x 0.05 lb	0.05 lb
BK-300	3000	300 x 0.1 lb	0.1 lb
BK-600	3000	600 x 0.2 lb	0.2 lb

- Gross/Net Display
- Automatic Zero Setting Mechanism (AZSM)
- Semi-Automatic Zero Setting Mechanism (Push Button)
- Rechargeable DC Power Supply
- Semi-Automatic Tare (Push Button)
- Programmable Tare
- X 2 and X4 price multiplier keys
- Keyboard Tare
- Battery Saving Feature (Auto Shut-Off)
- Initial Zero Setting Mechanism (IZSM, On/Off Switch)
- AC Power
- Liquid Crystal Display
- Category 1 Sealing: See Page Two*
- Price Look Up(PLU) keys

***The physical seal does not prevent access to the configuration and calibration of the device. Only the event counters of the audit trail meet the provisions for sealing requirements of NIST Handbook 44. See page Two.**

Zhongyuan Electrical Measuring Instruments Co. (Non-NTEP) model L6G load cell : 100 kg, 200 kg, 500 kg.

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.

Mike Cleary
Chairman, NCWM, Inc.

Don Onwiler
Chairman, National Type Evaluation Program Committee
Issue date: September 15, 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.

Atron Systems, Inc.
Digital Electronic Price Computing Floor Scale
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Application: For use in direct sale applications. Devices (in which the “Country” code, “RS-232” code, and “Power Supply” code are blank) are traceable to this Certificate of Conformance.

Model Nomenclature: BK-YY C- R B +

- BK → **Model Prefix:** BK-Series
- YY → **Capacity:** 120, 150, 300, or 600, (in pounds)
- C → **Country:** (Blank) = USA, C = Canada
- R → **RS-232:** (Blank) = No RS-232 port, R = RS-232 port
- B → **Power Supply:**
 (Blank) = External AC Adapter & Internal Batteries
 B = Internal transformer power supply with AC Cord & Internal batteries
- + → **Resolution:** (Blank) = 3000 n_{max} , + = 6000 n_{max}

Identification: The manufacturer's identification, model number, and serial number are on two (2) identical pressure sensitive, self-destructive labels located on the top side of the display head as well as on the front of the scale base (platform). The scale displays the firmware version number (V1.20 or later) on the weight display, whenever the scale is powered on.

<u>Version Number Field Description</u>	<u>Serial Number Field Description</u>
Example: 01.20.300, 01= Major Revision Number 20= Minor Revision Number 300= Maximum capacity in kilograms	Example: BK6001201123 BK = Model name prefix 600 = capacity in pounds (120, 300, or 600) 12 = Two digit month of manufacture 01 = Two digit year of manufacture 123 = Consecutive number



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Sealing: The devices are equipped with a Category 1 method of sealing.

The scales have 2 non-resettable, 3-digit event counters. One event counter is identified as “OPT” and it increments whenever any configuration settings are changed. The other event counter is identified as “CAL” and it increments when the device is calibrated. The counters can be viewed by pressing the “SAVE” key, after turning the scale on (during scale count down). Press the “ZERO” to exit the mode.

The scales are equipped with a wire security seal. This prevents access to an internal calibration button. **The physical seal does not prevent access to the configuration and calibration of the device. All changes to the configuration and the calibration parameters, made after pressing the internal calibration button, are always tracked by the event counters of the audit trail. Only the event counters of the audit trail meet the provisions for sealing requirements of NIST Handbook 44.**

Method 2 Audit Trail: These scales have 2 non-resettable, 3-digit event counters. One event counter increments whenever any configuration settings are changed and is identified as “OPT”. The other event counter increments when the device is calibrated and is identified as “CAL”. These counters can be viewed by pressing the “Mode” key after turning the scale on (during scale count down) but before it goes to zero.

Test Conditions: The emphasis of this evaluation was on device design, marking, operation, and compliance with influence factors. The 120 lb x 0.02 lb model BK-120 - + (software version 1.20) and the 600 lb x 0.2 lb model BK-600 - were tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The devices were tested with the maximum IZSM load (20 % of capacity). A load of approximately one-half scale capacity was applied to the device 100 000 times. Increasing/decreasing load and shift tests were conducted periodically during this time. The devices have internal rechargeable 6 VDC batteries and utilize an external 120 AC to 9 DC adapter. The devices were tested over a voltage range of 102 VAC to 132 VAC. The devices were tested with the internal battery and without the internal battery during the AC voltage tests. The devices were also tested over a voltage range of 4.7 VDC to 9.9 VDC.

Evaluated By: A.P. Buie (MD)

Type Evaluation Criteria Used: NIST Handbook 44, 2006 Edition; NCWM Publication 14, 2006 Edition

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

Information Reviewed By: S. Patoray and L. Bernetich (NCWM)