



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Non-Computing Scale  
Counter Bench, Digital Electronic  
Model: ED Series  
 $n_{max}$ : 3 000  
Capacity x d: see table on page 2  
Platform Size: 12 in x 8 3/4 in  
Accuracy Class: III

**Submitted By:**

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**Standard Features and Options**

**Standard Features:**

- Semi-automatic (push-button) Zero
- Automatic (AZSM) Zero Setting Mechanism
- Initial (IZSM) Zero Setting Mechanism
- Semi-automatic (push-button) Tare
- Keyboard Tare
- Gross/Net Weight Display
- Liquid Crystal Display (LCD)
- AC/DC Adaptor
- Battery Power Supply
- Batter Saving Feature (Auto Shut Off)
- RS-232
- Multi-interval
- Units, lb, kg, oz, g

**Load Cells Used:**

• CAS Corp	Model Number SW-3L	Capacity 3 kg	$v_{min}$ 0.001 kg (Non-NTEP)
• CAS Corp	Model Number SW-6	Capacity 6 kg	$v_{min}$ 0.002 kg (Non-NTEP)
• CAS Corp	Model Number SW-15L	Capacity 15 kg	$v_{min}$ 0.005 kg (Non-NTEP)
• CAS Corp	Model Number SW-30L	Capacity 30 kg	$v_{min}$ 0.01 kg (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.

Randy Jennings  
Chairman, NCWM, Inc.

Judy Cardin  
Chairman, National Type Evaluation Program Committee  
Issued: September 15, 2009

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## CAS Corporation

### Non-Computing Scale / ED Series

	Model	lb	oz	kg	g	$n_{max}$
<b>Capacity</b>	ED-6	3/6 lb	40/100 oz	1.5/3 kg	1500/3000 g	3000
<b>e<sub>min</sub></b>		0.001/0.002 lb	0.02/0.05 oz	0.0005/0.001 kg	0.5/1 g	
<b>Capacity</b>	ED-15	6/15 lb	80/160 oz	3/6 kg	3000/6000 g	3000
<b>e<sub>min</sub></b>		0.002/0.005 lb	0.05/0.1 oz	0.001/0.002 kg	1/2 g	
<b>Capacity</b>	ED-30	15/30 lb	200/400 oz	6/15 kg	6000/15000 g	3000
<b>e<sub>min</sub></b>		0.005/0.01 lb	0.1/0.2 oz	0.002/0.005 kg	2/5 g	
<b>Capacity</b>	ED-60	30/60 lb	400/1000 oz	15/30 kg	15000/30000 g	3000
<b>e<sub>min</sub></b>		0.01/0.02 lb	0.2/0.5 oz	0.005/0.01 kg	5/10 g	

**Application:** General purpose weighing.

**Identification:** The required information is located on a metal plate riveted to the side of the scale and adjacent to the face of the device.

**Sealing:** The scale can be sealed by using a wire seal threaded through two brass screw heads on the bottom of the scale, which secures a cover plate preventing access to the calibration switch.

**Test Conditions:** The emphasis of this evaluation was on the device design, operation and compliance with influence factors requirements. For purposes of this evaluation two devices were submitted. A 30/60 lb x 0.01/0.02 lb, 15/30 kg x 0.005/0.01 kg and a 3/6 lb x 0.001/0.002 lb, 1.5/3 kg x 0.0005/0.001 kg were evaluated. Both of these devices were tested over a temperature range of -10°C to 40°C (14°F to 104°F). A load of approximately one-half capacity was applied to the scales over 100,000 times. The devices were periodically tested utilizing increasing/decreasing load tests and shift tests. Additionally, tests were conducted using 100 VAC and 130 VAC. CAS model DLP-50 printer was supplied and used for the purpose of this evaluation.

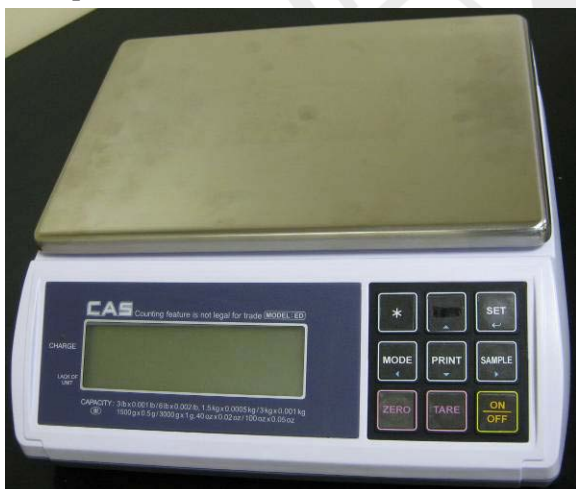
**Evaluated By:** E.A. Payne, Jr. (MD)

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2009. NCWM, Publication 14: Weighing Devices, 2009.

**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

**Information Reviewed By:** J. Truex (NCWM)

#### Example of Device:



Model ED Series