



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Computing Scale  
 Load Cell Electronic, Multi-Range  
 Model: RAVxxD, RAVxxDa, RAVxxDP & RAVxxDPa  
 $n_{max}$ : 3000  
 $e_{min}$ : See table on page 2  
 Capacity: See table on page 2  
 Platform: 320 X 230 mm Stainless Steel  
 Accuracy Class: III

**Submitted By:**

Adam Equipment Inc.  
 1 Fox Hollow Road  
 Oxford, CT 06478  
 Phone: 203-790-4774 x 322  
 Fax: 203-792-3406  
 Contact: George Boncek  
 Email: [g.boncek@adamequipment.com](mailto:g.boncek@adamequipment.com)  
 Web site: [www.adamequipment.com](http://www.adamequipment.com)

**Standard Features and Options**

Automatic Zero Tracking (AZT)  
 Initial Zero Setting Mechanism (IZSM)  
 Semi-Automatic Zero (Push Button)  
 Semi-Automatic Tare (Push Button)  
 Keyboard Tare  
 Programmable Tare  
 Price Computing

AC Power Supply  
 DC/Battery Power Supply  
 Customer Display (Dual)  
 Liquid Crystal Display (LCD)  
 RS-232 Communication Port  
 Single Range  
 Multi (Dual) Range

The xx in the model designates capacity.

Load Cells Used: ZEMIC Model L6D Series (NTEP Certificate of Conformance number 11-012)  
 or other metrological equivalent and NTEP certified

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.

Jerry Buendel  
 Chairman, NCWM, Inc.

Ronald Hayes  
 Chairman, National Type Evaluation Program Committee  
 Issued: April 4, 2016

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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**Adam Equipment Inc.**

Computing Scale / Models RAVxxD, RAVxxDa, RAVxxDP & RAVxxDPa

Model	Capacity x e(d)	n <sub>max</sub>
RAV 6Da & RAV 6DPa	3 x 0.001 lb 6x 0.002 lb	3000
RAV 15Da & RAV 15DPa	6 x 0.002 lb 15 x 0.005 lb	3000
RAV 30Da & RAV 30DPa	15 x 0.005 lb 30 x 0.01 lb	3000
RAV 60Da & RAV 60DPa	30 x 0.01 lb 60 x 0.02 lb	3000
RAV 3D & RAV 3DP	1.5 kg x 0.5 g 3 kg x 1 g	3000
RAV 6D & RAV 6DP	3 kg x 1 g 6 kg x 2 g	3000
RAV 15D & RAV 15DP	6 kg x 2 g 15 kg x 5 g	3000
RAV 30D & RAV 30DP	15 kg x 5 g 30 kg x 10 g	3000

**Application:** For use in general purpose weighing applications.

**Identification:** The required information is on a label affixed to the left side of the scale base.

**Sealing:** These devices require 2 (two) physical seals, a wire seal and an adhesive paper seal. The wire seal is threaded through a metal rod that protrudes through the bottom of the device and also through a hole in the scale base adjacent to the metal rod. The paper seal is placed over a plastic cap on the bottom of the device which provides access to the calibration switch.

**Test Conditions:** This certificate is issued based upon the following tests and upon information provided by the manufacturer. For the purposes of this evaluation, a 1.5/3 kg capacity and a 15/30 kg were submitted. The emphasis of the evaluation was on the design, marking, operation and compliance with influence factor requirements. Several increasing/decreasing load tests and shift tests were performed on each device. The devices were tested with an AC power supply from 102 VAC to 132 VAC and a DC power supply from 4 VDC to 6.6 VDC. The 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 units over 100 000 times (each) and the scales were tested periodically during this time.

**Evaluated By:** E. Morabito (NY)

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2016. NCWM, Publication 14: Weighing Devices, 2016.

**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)



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**Examples of Device:**



RAV Front View



RAV Rear View

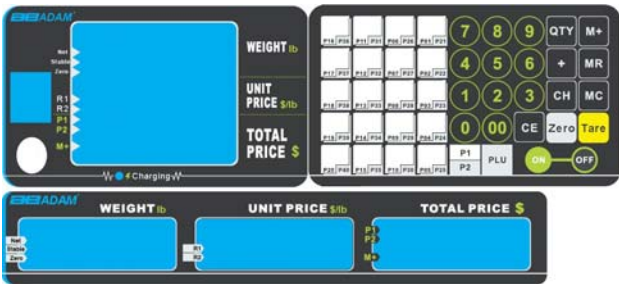


RAV P (Pole mount display)

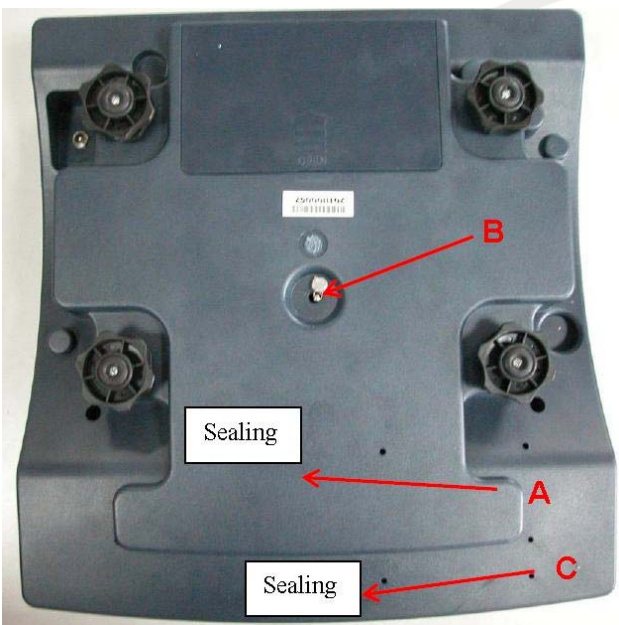


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RAV Dual Range Front View



Sealing Example

