

## Pricing Retail RAV Series

# User Manual

(P.N. 3.02.6.6.12923, Revision 1.00, Effective Feb2016)



## 1. SPECIFICATIONS

MODEL	MAXIMUM CAPACITY x WEIGHING DIVISIONS		Minimum Weight
	Range 1	Range 2	
RAV 3D	1.5 kg x 0.5 g	3 kg x 1 g	10 g
RAV 6D	3 kg x 1 g	6 kg x 2 g	20 g
RAV 15D	6 kg x 2 g	15 kg x 5 g	40 g
RAV 30D	15 kg x 5 g	30 kg x 10 g	100 g
RAV 6Da	3 lb x 0.001 lb	6 lb x 0.002 lb	0.02 lb
RAV 15Da	6 lb x 0.002 lb	15 lb x 0.005 lb	0.04 lb
RAV 30Da	15 lb x 0.005 lb	30 lb x 0.01 lb	0.1 lb
RAV 60Da	30 lb x 0.01 lb	60 lb x 0.02 lb	0.2 lb

*(NOTE: The scales automatically switch from Range 1 to Range 2 when weight is increasing. Load must return to 0 before automatically switching back to R1 again. The indicator mark next to R1 or R2 on the front and rear display panels shows which range the scale is currently operating in).*

## 2. POWER SUPPLY

100-240 VAC 50/60 Hz 0.35A max. to 12 VDC 1000 mA external power supply.

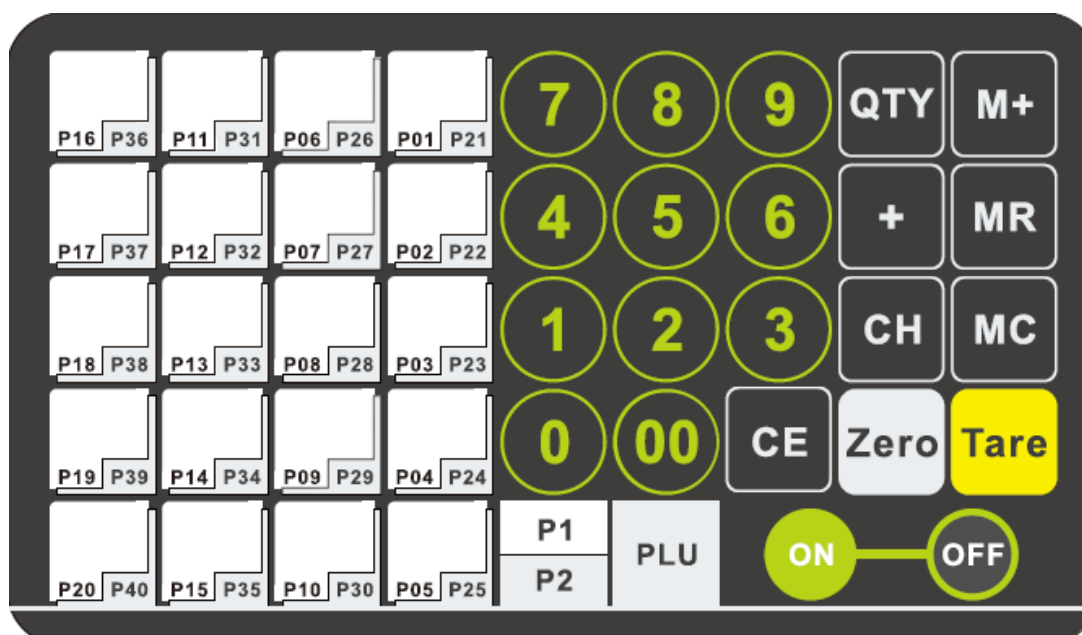
6V 4Ah SLA rechargeable battery - insert into the battery holder on scale base.

Power consumption is approx. 29mA at standby, 67mA with backlight on.

Battery life without backlight is approx. 140 hrs.

*To set backlight mode, press 'Tare' and '4' key together. Press '0' to turn off, '1' for auto mode. Press 'M+' to apply the selected value, and return to weighing, or 'CE' to escape without change.*



## 3. OPERATION



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1. **"ON"**. Press briefly to turn the scale on. A self-test will run on the display.
  2. **"OFF"**. Press and hold for approx. 2 seconds to turn the scale off.
  3. **"Tare"**. Press to subtract the weight of container currently on the scale (max. tare weight = maximum capacity of the scale). When a tare value is set, an indicator mark will show next to the 'Net' symbol on the front and rear display.
  4. **"Zero"**. To reset the displayed weight back to zero (only operates when the displayed weight is  $\leq \pm 2\%$  of the max. capacity). When a zero value is set, an indicator mark will show next to the 'Zero' symbol on the front and rear display.
  5. **"CE"**. Clear key: Press to clear the current unit price or other function values from the display.
  6. **"MC"**. No function on approved scales.
  7. **"CH"**. Change: After the total price is calculated, press **CH** and enter the amount paid by the customer and the scale will display the change to be returned to the customer.  
Example: The total price is \$15 and customer pays with \$20, press **CH** and enter 20.00. The Unit Price window will display **C 5.00** as the change for customer.
  8. **"MR"**. No function on approved scales.
  9. **"+"**. No function on approved scales.
  10. **"M+"**. No function on approved scales.
  11. **"QTY"**. Quantity key: After a unit price has been entered, press this key then enter how many pieces and the total price will be calculated (up to 99 pieces).
  12. **"PLU"**. Price Look Up key - PLU: P01 to P40. To store a unit price into PLU key, simply enter desired unit price and press the PLU key, then press selected PLU recall key and the unit price will be stored into that designated key.
  13. **"00"**. Double Zero key. E.g. press "5" "00" to enter **5.00** as the unit price per kg.
  14. **"P1/P2"**. Press to switch between primary (P1-P20) and secondary (P21-P40) PLU value. The P1 or P2 indicator on the left of the LCD display shows which group is selected.
  15. **"P01 / P21"** etc. PLU recall keys. When a unit price has been stored into P01 to P40 keys, press the appropriate keys to recall stored unit price and it will be displayed in the Unit Price window.  
Example: To program PLU P01 as £130.75 per kg  
Press **CE** to clear display.  
Press **P1/P2** until mark on the left of the LCD display shows **P1** is selected  
Press **1, 3, 0, 7, 5, PLU, P01 / P21** (Note: You must press PLU and the desired PLU key quickly whilst 'PLU 00' is still showing on the lower display line).
  16. **"0, 1 ...9"**. Numeric keys - use to enter values.
  17. The display backlight comes on automatically when a load is applied. It remains on for as long as the load is applied, or switches off 10 seconds after no load is detected.

**NOTE:** A double beep sound when pressing a key usually indicates an invalid action, function not available, or an error.

## 5. ERROR MESSAGES

Error Display	Meaning	Possible Cause
<b>Err H</b>	Initial zero too high	Scale turned on with weight > 10% of max. capacity already on the pan.
<b>Err L</b>	Initial zero too low	Scale turned on with upward force > 10% of max. capacity acting on the pan.
<b>Err N</b>	Unable to initialize	Vibration or varying load on the pan during switch-on.
<b>hhhhhh</b>	Overload	Weight on pan exceeds maximum capacity + 9d.
<b>-----</b>	Out of range	Total price exceeds 999999.
 <b>Battery symbol visible</b>	Battery voltage is lower than 5.6 V	Battery needs charging. Connect mains adapter. (Press 'Tare' and '6' together to view battery voltage. Press 'CE' to return to weighing mode).
 <b>Battery symbol flashing</b>	Battery voltage is lower than 5.5 V	Battery needs charging. Connect mains adapter.
<b>Scale automatically shuts off</b>	Battery voltage is lower than 5.4 V	Battery needs charging. Connect mains adapter.

## 6. GENERAL PRECAUTIONS

1. The scale must be level during use. Adjust the feet and use the integrated spirit bubble at the front of the scale to achieve level.
2. Do not use on surfaces or in areas where vibration, air movement or temperature change may affect weighing.
3. Avoid using long power extension leads – these may cause interference.
4. Ensure no weight is on the pan when turning on the scale.
5. Place items to be weighed as close to centre of the pan as possible
6. Keep the scale dry at all times. The stainless steel top pan is removable for cleaning separately – soap and water is most suitable. Do not use acidic or alkaline solutions or ferrous material such as wire wool. Contaminating the stainless pan with ferrous residue may cause surface rust or discolouration. If necessary use a damp cloth to clean the body of the scale, but avoid splashing or immersing the scale water in water and do not use chemicals or abrasive materials to clean it. Do not disturb or damage any seals or labels as these are required to show that the scale is legally verified for use.
7. Don't impact or drop heavy objects on the scale – this may affect accuracy, or cause damage.
8. Only use fingers to operate the keypad. Do not press with hard or sharp objects.
9. Don't expose to excess heat or moisture, do not exceed maximum weight capacity.
10. If there is no display after you turn on the scale, please check the power input lead and batteries are inserted correctly.
11. If the scale is not going to be used for an extended period, the battery should be recharged every 3 months.

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## 7. ACCESSORIES & SPARE PARTS

Adam Equipment offer a range of accessories and spares for your product. These include:

- Stainless steel scoops and mounting accessories:  
Fish scoop, Vegetable scoop, Confection scoop, Flat scoop,
- Sealed lead-acid battery 6V 4Ah
- External mains adapter (various countries)
- Stainless steel top pan
- Transparent wipe-clean in-use cover
- Calibration / check weights (all OIML classes and sizes)
- Replacement display and keypad parts

**Contact your dealer or Adam Equipment local office for more information on parts and service and repair information.**

### WARRANTY STATEMENT

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorised technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service centre should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorised modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual. Additionally rechargeable batteries (where supplied) are not covered under warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

## FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian ICES-003/NMB-003 regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WEEE 2012/19/EU



DO NOT DISPOSE OF IN GENERAL WASTE

Any Electrical or Electronic Equipment (EEE) component or assembly of parts intended to be incorporated into EEE devices as defined by European Directive 2012/19/EU must be recycled or disposed of using techniques that do not introduce hazardous substances harmful to our health or the environment as listed in Directive 2011/65/EC or amending legislation.

Battery disposal must be performed according to local laws and restrictions set to impose targets for recycling.



**ADAM EQUIPMENT** is an ISO 9001:2008 certified global company with more than 40 years' experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Medical, retail and Industrial Segments. The product range can be described as follows:

- Analytical and Precision Balances
- Compact and Portable Balances
- High Capacity Balances
- Moisture analysers / balances
- Mechanical Scales
- Counting Scales
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales
- Crane scales
- Medical Scales
- Retail Scales for Price computing

For a complete listing of all Adam products visit our website at

**[www.adamequipment.com](http://www.adamequipment.com)**

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