



# ASC Series User Manual

(P.N. 3.02.6.6.12921, Revision B, Effective Aug 2017)

## 1. SPECIFICATIONS

MODEL	MAX. CAPACITY	RANGE	INTERVAL
ASC 2001	2 kg	0.1~2000 g	0.1 g
	4.4 lb	0.001~4.4 lb	0.0002 lb
	72 oz	0.01~72 oz	0.01 oz
ASC 4000	4 kg	0.5~4000 g	0.5 g
	8.8 lb	0.001~8.8 lb	0.001 lb
	142 oz	0.02~142 oz	0.02 oz
ASC 8000	8 kg	1~8000 g	1.0 g
	17.6 lb	0.002~17.6 lb	0.002 lb
	282 oz	0.03~282 oz	~0.03 oz

## 2. POWER SUPPLY

2pcs 1.5V AAA batteries - insert into the battery holder on scale base.

100-240 VAC 50/60 Hz to 6 VDC 500mA external power supply.

## 3. OPERATION

1. "ON/OFF" button. Press briefly to turn on and off scale.
2. "TARE/MODE" button for zero, tare, or changing units.
  - Press and hold for 3 seconds to zero or tare.
  - Press briefly to cycle through available weighing units  
e.g. g-->lb-->oz

### 3. ERROR MESSAGES (DISPLAY TURNS RED)

Error Display	Meaning	Possible Cause
<b>o-Ld</b>	Overload	Excess weight on pan, or excessive upwards pull
<b>Lo</b>	Low power	Batteries weak, or mains adaptor fault

4. Power-saving mode:
  - In unloaded state, the scale will turn off within 60 seconds if the weight changes by less than 3g within 10 seconds.
  - In loaded steady state, the backlight will turn off within 10 seconds, and within 60 seconds the scale will turn off.

**To disable power-saving mode:**

When the scale is switched on, press “ON/OFF” and “TARE/MODE” buttons together until display shows **A-off** or **n-off**. Now press the “TARE/MODE” button to switch between power-saving mode on (**A**) and off (**n**). Once selected, press the “ON/OFF” button for approx. 3 seconds to turn off the scale. When turned on again, your newly selected power-saving mode option will be active.

- 5. When the scale is turned on, the weighing unit will be the same as was last set before the scale was turned off.
- 6. The stainless steel top pan is removable for cleaning.

**4. ATTENTION**

- 1. Keep the scale dry, do not use chemicals to clean it. If necessary, please use a damp cloth to clean it, but avoid splashing or immersing the scale water in water.
- 2. Don't hit or drop the scale – this may affect accuracy, or cause damage.
- 3. Don't expose to excess heat or moisture, do not exceed maximum weight capacity.
- 4. If no display after you turn on the scale, please check batteries are inserted correctly

**5. CALIBRATION INSTRUCTIONS**

**NOTE:** You should only perform this process using accurate reference test weights. Refer to OIML Recommendation R111-1 or ASTM E617, and use OIML class **M<sub>1</sub>** or NIST/ASTM **class 5** weights or higher (**F<sub>2</sub>** or **class 4** for 2 kg model).

- 1. Insert batteries or DC power adaptor and place the scale on a rigid level surface in an area free from disturbance such as drafts and vibration.
- 2. Press “MODE/TARE” and “ON/OFF” keys at the same time. The scale will now turn on. Keep holding these two keys until “CAL 0” displays briefly. Release both keys and the ADC count displays on the LCD. It should generally be between the initial values shown in the calibration table (fig.1) below.

Model	Calibration weight C1	Calibration weight C2	ADC lower value	ADC upper value
ASC 2000 (2 kg X 0.1 g)	1000 g	2000 g	45000	85000
ASC 4000 (4 kg X 0.5 g)	2000 g	4000 g	45000	68000
ASC 8000 (8 kg X 1 g)	2000 g	4000 g	20000	40000

**Fig. 1: Calibration Table**

- 3. Press “MODE/TARE”. The display briefly shows the value of the first calibration weight C1, and then displays “0”. Place the first calibration weight on the scale as close to the centre of the pan as possible. The displayed ADC value should now be between the values shown in the calibration table.
- 4. Once the value displayed is stable, press “MODE/TARE”. The display briefly shows the value of the second calibration weight C2, and then displays “0”. Place the second calibration weight on scale as close to the centre of the pan as possible. The displayed ADC value should now be between the values shown in the calibration table.
- 5. Once the value displayed is stable, press “MODE/TARE. The display will now briefly show “END” and then the scale will turn off.

**CALIBRATION IS NOW COMPLETE.**

**To check the scale accuracy:**

Turn on the scale and check if it displays the weight accurately at various points, using reference weights. If it doesn't, repeat steps 2 to 5.

## 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.

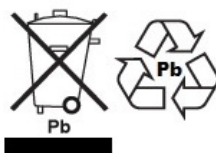
The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

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

## WEEE 2012/19/EU



This device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Disposal of batteries (if fitted) must conform to local laws and restrictions.

Cet appareil ne peut être éliminé avec les déchets ménagers. L'élimination de la batterie doit être effectuée conformément aux lois et restrictions locales.

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

## 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..



Adam Equipment products have been tested with, and are always supplied with mains power adaptors which meet all legal requirements for the intended country or region of operation, including electrical safety, interference and energy efficiency. As we often update adaptor products to meet changing legislation it is not possible to refer to the exact model in this manual. Please contact us if you need specifications or safety information for your particular item. Do not attempt to connect or use an adaptor not supplied by us.

**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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