

AE ADAM

Adam Equipment

MIW-20
BABY SCALE

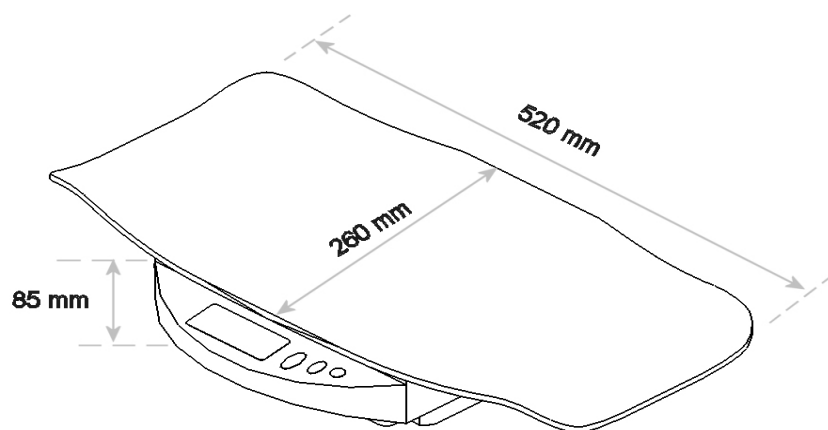
ADAM EQUIPMENT CO. LTD.
p.n. 4295, Rev. B, March 2004

CONTENTS

1.0 INTRODUCTION	2
2.0 TECHNICAL SPECIFICATIONS.....	3
3.0 LOCATING THE SCALE.....	4
4.0 SETTING UP THE SCALE	4
5.0 KEY DESCRIPTIONS.....	5
6.0 OPERATIONS	5
7.0 SELECTION OF UNITS.....	6
8.0 HOLD FUNCTION	7
9.0 AUTOMATIC POWER SWITCH OFF	7
10.0 CALIBRATION.....	8
11.0 ERROR MESSAGES.....	8

1.0 INTRODUCTION

- The MIW-20 scales are precision medical scales specially designed to weigh babies on a cradle.
- The scale has a capacity of 20 kg and readability of 0.01 kg.
- The scale displays the weight in kilograms or pounds.
- The scale is fast, accurate and simple to use.
- It operates using an internal alkaline battery (PP3, 9V) supplied as standard with the scale.
- It has **HOLD** function to lock the display until the operator releases it.
- Automatic turn off feature after 30 seconds is available to maximise the battery life.
- Filters are optimised for weighing active babies.



2.0 TECHNICAL SPECIFICATIONS

Specifications	MIW-20
Maximum Capacity, max	20 Kg (44.4 lbs.)
Readability, d	10 g (1/2 oz.)
Tare range, -T	-20 kg (44.4 lbs.)
Battery	One, PP3, 9V
Operating temperature	+5° C / + 35° C
Net weight	2.15 kg (4.73 lbs.)

3.0 LOCATING THE SCALE

- Place the scale on a stable surface. A soft and uneven floor (e.g. carpet, linoleum) could cause an erroneous weight reading.
- The ambient temperature of the scale should be kept as constant as possible. Do not place the scale where it may be subjected to draughts or heater and direct sunlight. It is advisable not to place the scale near windows, air conditioning vents or radiators.
- The scale should be placed in a location where it is not likely to be damaged by accidentally dropping heavy weights or moisture on to the scale. The weighing area should be kept clean.
- Clean the scale with a damp cloth whenever necessary. The bottom of the scale should be cleaned with a dry cloth only. Never use chemical or abrasive products.
- It is a precision scale and all care should be taken to protect the scale from vibration, humidity, temperature variations and dust.

4.0 SETTING UP THE SCALE

- The MIW-20 comes with an internal alkaline battery supplied as standard with the scale.
- Install the battery by removing the battery cover located at the bottom of the main unit. After connecting the battery, it is to be inserted in the socket provided at the back of the battery cover and then place the cover back in its original position.
- There is no assembly necessary, simply press the **[ON/OFF/TARE]** key.

5.0 KEY DESCRIPTIONS



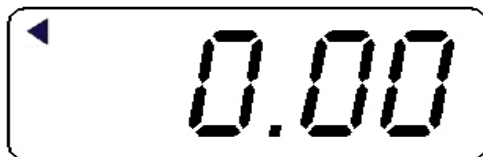
[ON / OFF/TARE] Turns the scale on or off (keep it pressed for 3 seconds).
Sets a zero condition when the platform is empty.
Sets the display to zero by storing the current weight in the memory to tare the scale.

[UNIT] Sets the Units.

[HOLD] Holds the average display value.

6.0 OPERATIONS

- To start weighing, turn the scale on using the **[ON/OFF/TARE]** key.
- It displays "0000" first. If the chosen unit of weight is Kilogram, next it displays "0.00" with a triangle at the top left of the display.



- If the display shows "0: 0" with a triangle at the bottom left of the display, the unit is in pounds and ounces.



- To zero the display, press the **[ON/OFF/TARE]** key.
- In practice when the scale is turned on, the **[ON/OFF/TARE]** key is pressed to zero the display, if necessary.
- After the display is at zero, place the baby to be weighed on the cradle of the scale.
- The display will show the weight in the chosen unit.
- If necessary the weight of blankets or pillows can be accounted for, by placing those on the cradle first and pressing the **[ON/OFF/TARE]** key to zero the display. Then the baby to be weighed can be placed on the cradle. The display will show the weight of the baby without the added weight of the blankets or pillows.

7.0 SELECTION OF UNITS

- Turn the scale on by pressing **[ON/OFF/TARE]**.
- Press the **[UNIT]** key to toggle between Kilograms and Pounds.
- If the chosen unit of weight is Kilogram, next it displays “ **0.00** ” with a triangle at the left top of the display.
- If the display shows “**0: 0**” with a triangle at the left bottom of the display, the unit is in pounds and ounces.

8.0 HOLD FUNCTION

- Due to the baby's movement, the weight shown on the display will change all the time. After the baby is placed on the scale, press **[HOLD]** to hold the weight value. The display shows 'hold'. The scale will calculate the average of the former weight values taken automatically.
- The display will be locked when the **[HOLD]** key is pressed. The display will show a flashing "▲" symbol at the top of the display indicating the baby's weight is held.
- The scale will return to normal weighing when the **[HOLD]** key is pressed a second time or when the display is zeroed or tared with no weight on the scale.

9.0 AUTOMATIC POWER SWITCH OFF

- The scale is operated using one PP3 9V alkaline battery in the internal battery chamber.
- The typical battery life is 12 hours.
- The scale includes the feature to turn the power off after 30 seconds if it is not being used. This helps to maximise the battery life.
- If the battery is low on charge, "**LO**" will be displayed. The scale will be automatically switched off after 5 minutes.
- The battery should be replaced by new ones.
- Do not throw away the discharged battery together with the domestic rubbish. For disposal, take those to the junk battery collector.
- Contact your supplier for more information.

10.0 CALIBRATION

PROCEDURE

- Place the scale on a flat platform after inserting a PP3, 9V alkaline battery.
- Press the **[ON/OFF/TARE]** key to turn the power ON.
- Display will show "0000" initially, 3 seconds later it will show "0.00"
- Create a short circuit by plugging a screw driver into the test pin hole which is on the head of the scale base. Display will show the zero count between 1000 and 2500.
- Press the **[ON/OFF/TARE]** key. Display will show "XXX 0".
- Load 20 kg weight onto the scale. Display will show a span count between 1500 to 3500.
- Press the **[ON/OFF/TARE]** key again. Display will show 'CAL'. After 3 seconds the display will show "20.0".
- Remove the weight and keep the **[ON/OFF/TARE]** key pressed for 2 seconds.
- The calibration is complete and the scale will be turned off.

11.0 ERROR MESSAGES

Error Messages	Possible causes	Suggestions
"LO "	If the batteries are low on charge, "LO " will be displayed. The scale will be automatically switched off after 5 minutes.	The batteries should be replaced by new ones.
"ERR "	Displayed when the total weight exceeds the capacity of the scale.	The scale should be emptied.



Manufacturer's Declaration of Conformity

This product has been manufactured in accordance with the harmonised European standards, following the provisions of the below stated directives:

Electro Magnetic Compatibility Directive 89/336/EEC

Low Voltage Directive 73/23/EEC

Adam Equipment Co. Ltd.
Bond Avenue
Denbigh East Estate
Milton Keynes, MK1 1SW
United Kingdom

FCC COMPLIANCE

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. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The 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.

Shielded interconnect cables must be employed with this equipment to insure compliance with the pertinent RF emission limits governing this device.

Changes or modifications not expressly approved by Adam Equipment could void the user's authority to operate the equipment.

ADAM EQUIPMENT is an ISO 9001:2000 certified global organisation with more than 30 years experience in the production and sale of electronic weighing equipments. Products are sold through a world wide distributor network -supported from our company locations in the UK, USA and SOUTH AFRICA. The company and their distributors offer a full range of Technical Services such as on site and workshop repair, preventative maintenance and calibration facilities.

ADAM's products are predominantly designed for the Laboratory, Educational, Medical and Industrial Segments. The product range can be classified as follows:

- Analytical and Precision Laboratory Balances
- Top Loading Balances for Educational establishments
- Counting Scales for Industrial and Warehouse applications
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales with extensive software features including parts counting, percent weighing etc.
- Digital Electronic Scales for Medical use
- Retail Scales for price computing

<p>Adam Equipment Co. Ltd. Bond Avenue Milton Keynes MK1 1SW UK</p> <p>Phone:+44 (0)1908 274545 Fax: +44 (0)1908 641339</p> <p>e-mail: sales@adamequipment.co.uk</p>	<p>Adam Equipment Inc. 26, Commerce Drive Danbury, CT 06810 USA</p> <p>Phone: +1 203 790 4774 Fax: +1 203 792 3406</p> <p>e-mail: sales@adamequipment.com</p>	<p>Adam Equipment S.A. (Pty) Ltd. P.O. Box 1422 Kempton Park 1620 Johannesburg Republic of South Africa</p> <p>Phone +27 (0)11 974 9745 Fax: +27 (0)11 392 2587</p> <p>e-mail: sales@adamequipment.co.za</p>
--	---	--

© Copyright by Adam Equipment Co. Ltd. All rights reserved. No part of this publication may be reprinted or translated in any form or by any means without the prior permission of Adam Equipment.

Adam Equipment reserves the right to make changes to the technology, features, specifications and design of the equipment without notice.

All information contained within this publication was to the best of our knowledge timely, complete and accurate when issued. However, we are not responsible for misimpressions which may result form the reading of this material.

The latest version of this publication can be found on our Website.

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