ABW/AIN

OPERATION MANUAL

PLEASE READ THIS MANUAL VERY CAREFULLY BEFORE OPERATING

CONTENTS

1. INSTALLATION

Because of metrological legislation, installation/some metrological parameter settings are limited to be done by authorized personnel only. Do not attempt to change any of the built-in parameters. Contact your dealer for installation and technical assistance.

CAUTION:

The weighing result is officially recognized only when this unit is sealed (and/or stamped) and bearing a serial number. Do not attempt to break the seal (or stamp) affixed to this indicator or remove the serial number. Contact your dealer for more information and after sales service.

For most accurate weighing result, do not use the indicator in where or when the environment condition falls beyond as those listed on **SPECIFICATIONS.**

Do not attempt to open this unit or conduct any trouble shootings other than those listed on **TROUBLE SHOOTING.**
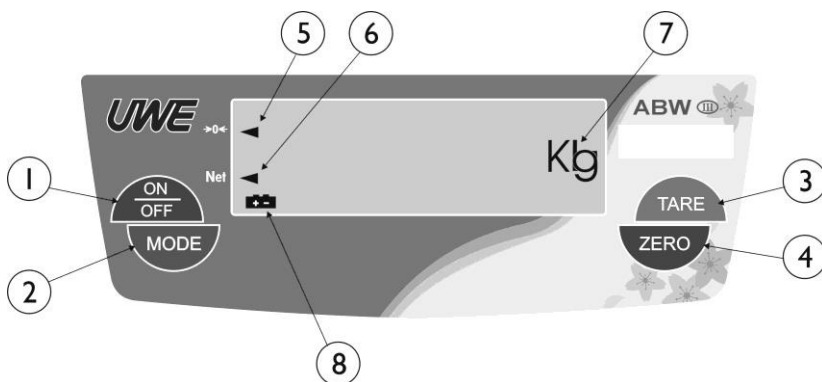
2. SPECIFICATIONS

Model No.	AIN-15	AIN-22	AIN-30	ABW-150
Capacity (Max)	15kg	22kg	30kg	150kg
Division (e)	0.005kg	0.01kg	0.01kg	0.05kg
Tare Range	1/3 Max. – e			
Power-on Zero Range	±10% Max.			
Zero Range	±2% Max.			
Min. Load	20e			
Max. measuring range	9.0mV			
Min. signal voltage per verification scale interval	1.5 µV			
Power Source	By Built-in Rechargeable Battery or AC/DC Power Adaptor			
Load cell Excitation voltage	5 VDC			
Min. load cell impedance	85Ω			
Max. load cell impedance	1000Ω			
Load cell connection	4-wire			
Operation Environment	0°~40°C (32°~104°F) Non-condensed. R.H.$\leqq$ 85%			

Specifications subject to change without notice.

CAUTION:

To comply with the law of certain countries and certain approval requirements, the avoirdupois weight unit of this indicator may be disabled.

3. KEYBOARD LAYOUT AND DESCRIPTION

1. ON/OFF KEY

Press this key to turn indicator on or off.

2. MODE KEY

Press this key to shift among different weight units and/or turn backlight on/off.

3. TARE KEY

Press this key to tare off the weight of a container.

4. ZERO KEY

Press this key to set weight displayed to zero.

5. ZERO INDICATOR

This indicator appears to indicate zero weight status.

6. NET INDICATOR

This indicator appears to indicate the tare function
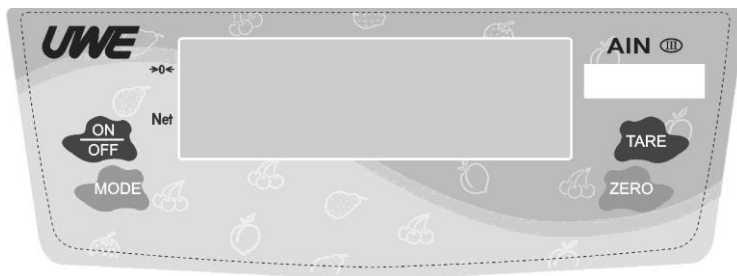is in operation and weight shown is net weight.

7. WEIGHT UNIT INDICATOR

The current weight unit is displayed here.

8. LO BAT INDICATOR

This indicator appears when input voltage is below the
lowest input limit. Check the power supplied to the
indicator.

AIN OVERLAY

4. INITIAL SETUP

4.1 PLACING THE SCALE

In order to obtain an accurate weighing result, the complete weighing instrument (***hereinafter referred as the scale***) must be placed on a strong and level surface.

4.2 INTERNAL SETTING

4.2.1 Display Segment Check

User can enter this function to check to see if the display and backlight (if purchased) are functioning properly.

a. Scale is off
b. Press and hold **TARE,** then press **ON/ZERO**
c. Scale displays **F.1**
d. Press **TARE** once
e. Scale displays **F.2**
f. Press **MODE** and all segments will light up to allow user to check the condition of display
g. Press **TARE** for next function setup or **ON/ZERO** to restart the scale

4.2.2 Select Auto Power Off Setting

The scale is equipped with **Auto Power Off Function**. The scale will power off automatically if it is not

used for 4 minutes. Follow the below steps to enable/disable **Auto Power Off Function.**

a. Scale is off

b. Press and hold **TARE,** then press **ON/ZERO**

c. Scale displays **F.1**

d. Press **TARE** three times

e. Scale displays **F.4**

f. Press **MODE** to shift between **0_OFF** and **4_OFF**

    -To enable **Auto Power Off Function,** press **TARE** when **4_OFF** appears

    -To disable **Auto Power Off Function,** press **TARE** when **0_OFF** appears

g. Press **ON/ZERO** to restart the scale or **TARE** for next function setup

5. INSTRUCTION FOR USE

5.1 BEFORE WEIGHING

Make sure that:

a. Connect the load cell signal and power to the indicator properly.
b. Place the scale on a level and strong surface.
c. The platter (baby tray) is inserted properly.
d. The indicator is turned on.
e. The **ZERO INDICATOR** is on. If not, press **ZERO** to set display to zero.

5.2 WEIGHING

a. Gently step on the scale or put the baby in the tray. Excessive force applied may cause damages to weight sensor.
b. The weight result is displayed on the indicator automatically.
c. To prolong the life of the scale, it is a good practice not to put anything on it when not weighing.

5.3 SELECT WEIGHT UNIT

Press **MODE** to shift between kg → lb weight units. Refer to **4.2.1** for internal setting procedures.

The weight unit used before power off would be employed when the indicator is turned on again.

5.4 TURN BACKLIGHT (OPTIONAL) ON/OFF

Press **MODE** to shift between 2 different weight units with or without backlight.

Even though the backlight function is employed, backlight will be automatically turned off when a stable weight remained for 25 seconds or a zero weight is detected and remains stable for 10 seconds

Backlight will be automatically turned on again when a new weight is detected or when any key is pressed.

5.5 SET DISPLAYED VALUE TO ZERO WHEN UNLOADED

By pressing **ZERO,** weight displayed will be set to zero and **ZERO INDICATOR** appears.

Refer to **SPECIFICATIONS** for maximum zero range.

5.6 TARE OFF THE WEIGHT OF AN OBJECT

When a mat or blanket is used, follow the below steps to tare the weight off and get the net weight.

a. Scale is on and platter (baby tray) is empty.

b. Make sure that the **ZERO INDICATOR** is on.

c. Place the mat or blanket on the platter (baby tray).

d. Press **TARE.**

After **TARE** is pressed, the **NET INDICATOR** would appear.

Refer to **5.2** for weighing procedures. Weight displayed under is the net weight of the person. Refer to **SPECIFICATIONS** for maximum tare range.

5.7 CLEAR THE TARE FUNCTION
Remove all items off from the platter (baby tray) then press **TARE**. After **TARE** is pressed, the **NET INDICATOR** would disappear.

5.8 LOW BATTERY
When the **LO-BAT INDICATOR** appears. Apply the power adaptor and recharge the scale immediately. Fail to do so may cause unrecoverable damages to the rechargeable battery inside scale. The scale can remain in operation when being recharged.

NOTE:
If LO BAT status is detected during power on, indicator shows **P-OFF** and the indicator will be powered off automatically.

6. TROUBLE SHOOTING

Syndrome	**Indicator cannot be turned on**
Check:	Is the indicator powered properly?
Action:	Check power supply to indicator.

Syndrome	**Indicator turned off automatically**
Check	Is **Auto Power Off Function** employed?
Action	Refer to **4.2.2** to disable **Auto Power Off Function.**
Check	Is the **LO-BAT INDICATOR** on?
Action	Check power supply.

Syndrome	**Rated capacity cannot be reached**
Check	Is the **TARE INDICATOR** on?
Action:	Turn the indicator off. Remove all loads and turn on again.
Check	Is there anything obstructing the scale?
Action	Remove all obstacles.

Syndrome	**Display shows 00000 after counting down**
Check	Is the load applied to scale excess the rated capacity?
Action	Remove all loads and try again.
Syndrome	**Indicator displays ⁻⁻⁻⁻⁻**

Check	Is the load cell signal cables connected to the indicator properly?
Action	Recheck signal cable connections.
Check	Is load cell working properly?
Action	Check load cell input/output.
Check	Is the baby tray or platter insert properly?
Action	Make sure all 6 stands are insert firmly.
Syndrome	**Weighing result is not accurate**
Check	Is the scale placed in a level condition?
Action	Obtain a level condition.
Check	Is the scale affected by airflow, vibration or RFI?
Action:	Place the scale away from all disturbances.
Check	Is the indicator calibrated correctly?
Action	Contact your dealer.

7. DAILY CARE AND MAINTENANCE

7.1   Clean the indicator with a soft and damp cloth. If necessary, apply a mild detergent.

7.2   Do not use any harsh, abrasive material, acetone, volatile solvent, thinner or alcohol for cleaning.

7.3   Verify the accuracy of indicator periodically. Re-calibrate the indicator if necessary.
         NOTE: In some countries, calibration requires authorized/qualified agent. Contact your dealer for more information.

7.4   Store indicator scale in a dry and clean place.

APPENDIX: ERROR CODES

P_OFF

Low battery status is detected during power on. Indicator will shut off after this message appeared.

Error

Error during calibration.

Case 1:

The 1st calibration weight entered is less than 1/3 of rated capacity

Case 2:

The 2nd calibration weight entered is over the rated capacity.

Case 3: The span value is not within the acceptable range.

KONFORMITÄTSERKLÄRUNG
Declaration of conformity
Déclaration de conformité

$C\epsilon$

Die ichtselbsttätigen Waage

(III)

The non-automatic weighing instrument

L'instrument de pesage à fonctionnement non automatique

Hersteller: *Manufacturer*: Fabricant	Universal Weight Enterprise Co., Ltd.
Typ/Modell: *Type/Model*: Type/modèle:	AIN & ABW
Nr. der EG-Bauartzulassung (gegebenen falls): *No of the EC type-approval certificate (where applicable):* N° du certificat d'approbation CE de type (le cas écheant):	T6297

entspricht dem in der Bescheinigung über die Bauartzulassung beschriebenen Baumuster, sowie den Anforderungen der EG-Richtlinie 90/384/EWG in der jeweils geltenden Fassung und den Anforderungen folgender EG-Richtlinien:
corresponds to the production model described in the EC type-approval certificate and to the requirements of the Council Directive 90/384/EEC as amended and to the requirements of the following EC directives:
correspond au modèle décrit dans le certificat d'approbation CE de type, aux exigences de la directive 90/384/CEE modifiée et aux exigences des directives CE suivantes:

*Diese Erklärung gilt nur in Verbindung mit einer Konformitätsbescheinigung einer benanten Stelle.
This Declaration of conformity is only valid with a certificate of conformity issued by a notified body
*Cette dèclaration est valide seulement avac une aattestation de conformitè d´un organisme notlflè.

Anmerkung 1:   Der mit * gekennzeichnete Satz entfäilt, wenn die nichtselbsttätige Waage vom Hersteller geeicht wurde.
*Note 1:   The sentence marked with * does not apply, if the non-automatic weighing instrument was verified by the manufacturer.*
Note 1:   La phrasa marquie avac * ne s´applique pas au cas où linstrument de passage à fonctionnement non automatique a éié vàifié par ie fabricant.

Unterschrift *Signature* Signature	Datum *Date* Date Apr. 23. 2003