



www.wunder.it

PROFESSIONAL ELECTRONIC BABY SCALE MOD. BABYTWO

USER MANUAL



Read this manual carefully before using the instrument

INDEX

1.	INTRODUCTION.....	PAG. 2
2.	GENERAL RULES.....	PAG. 2
3.	SECURITY.....	PAG. 3
4.	TECHNICAL SPECIFICATION.....	PAG. 3
5.	INDICATOR.....	PAG. 4
6.	INSTALLATION.....	PAG. 5
7.	INSTRUCTION FOR USE	PAG. 6
8.	PRINTER FUNCTIONS.....	PAG. 7
9.	ERROR MESSAGE.....	PAG. 9
10.	MAINTENANCE AND ASSISTANCE.....	PAG. 9
11.	CONFORMITY.....	PAG. 9
12.	IDENTIFICATION LABELS	PAG. 10
13.	SCRAPPING AND WASTE DISPOSAL	PAG. 10
14.	WARRANTY.....	PAG. 11
15.	INSTALLATION BABY HEIGHT ROD (OPTIONAL).....	PAG. 12
16.	INSTALL SECURITY BASKETS.....	PAG. 13

By choosing the **WUNDER** mod. **BabyTwo** professional electronic scale, you have purchased a high precision instrument.

Since over 40 years **Wunder** has placed its experience at the service of health. This instrument is compliant with national standards in hospitals and clinics with medical class I with measurement function and is calibrated in conformity with accuracy class III.

The instrument is characterised by the possibility of fixing the electronic terminal to the weighing platform by means of a column or else installing the terminal autonomously.

The instrument is equipped with a dual LCD electronic terminal with triple reading to simultaneously view Weight and weight difference calculation.

2. GENERAL RULES

!Carefully read this manual before using the instrument as it supplies important indications concerning OPERATING SAFETY AND MAINTENANCE.

The descriptions and illustrations supplied in this manual are not binding.

WUNDER reserves the right to modify its products as deemed convenient in order to approve them without being committed to update this publication.

Conventions:

The following symbols have been used in this manual:



0470 MEDICAL CERTIFICATION



METROLOGICAL CERTIFICATION AND APPROVAL FOR MEDICAL USE



ACCURACY CLASS



ASSISTANCE WARRANTY CERTIFICATE



ATTENTION!

PLACED BEFORE DETERMINING PROCEDURES. COMPLIANCE FAILURE CAN DAMAGE THE PRODUCT



WARNING!

PLACED BEFORE DETERMINING PROCEDURES. COMPLIANCE FAILURE CAN HARM THE OPERATOR OR PATIENT OR DAMAGE THE PRODUCT



WASTE DISPOSAL



TYPE B PARTS SUPPLIED



BATTERY POWER



INDICATION OF WEIGHT FUNCTIONALITY

INDICATION OF STABLE WEIGHT



INTERFERENCE COULD OCCUR NEAR THE APPLIANCES



DUAL INSULATION

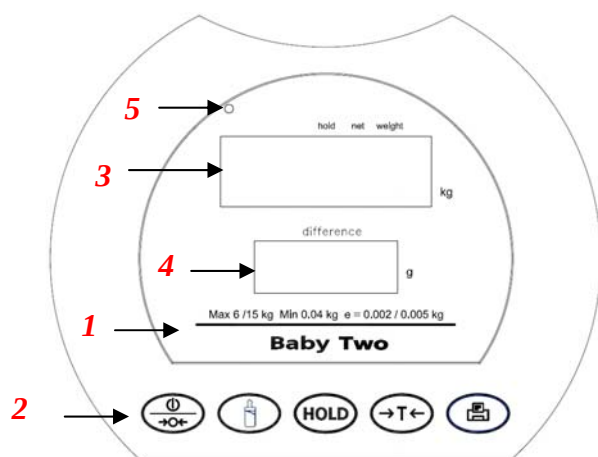
3. SAFETY**WARNINGS!**

Operators must read this manual carefully, comply with the instructions it contains and become familiar with the correct use and maintenance procedures of the instrument.

- Retain this manual for consultation and as a help in staff training
- Do not overload the instrument beyond its maximum capacity
- Do not apply loads abruptly.
- Do not press the keys with sharp or pointed objects
- Do not try to open the instrument.
- Do not remove seals from the instrument.
- Do not short-circuit the battery terminals
- Use only the power supply provided by Wunder. Before using it, make sure that the local mains voltage is compatible with the voltage of the adapter shown on the identification plate
- Regularly check the integrity of the instrument's power cord and make sure it does not come in contact with hot appliances
- Make sure that the power cord does not create obstruction hazards
- Unplug the instrument before cleaning it
- Do not place the instrument in water or other liquids
- Perform maintenance and subsequent metric verifications regularly

4. SPECIFICATION

Model	BABY TWO
Capacity	Max 3/6kg, e=1/2g; Max 6/15kg, e=2/5g; Max 10/20kg, e=5/10g;
Approvazione OIML	Classe III
Unit weight	kg
Display	LCD 20mm con 5 digits + secondario
Dimensions	550 x 290 (vassoio)
Key functions	ON/ZERO/OFF, HOLD, TARA, PRINT, MEMORY(MILK BOTTLE)
Power	Adapter 12V 2A Batteries rechargeable
Temperature operation	5°C / 35°C

5. INDICATOR

1. Weighing capacity and division

2. Key function

3. Main LCD: Weight

4. Second LCD automatically calculates the amount of Milk consumed

5. Power display

Key functions**Tasto****Description**Key ON. To reset the display (OFF) long press 3 seconds. Zero the scale ($\pm 2\%$ of full capacity)

To hold weighing result on the display/ determine stable weighing value.



Tare un-wanted weight.



Function Weight-Milk: automatically calculates the amount of Milk consumed



Print out data.

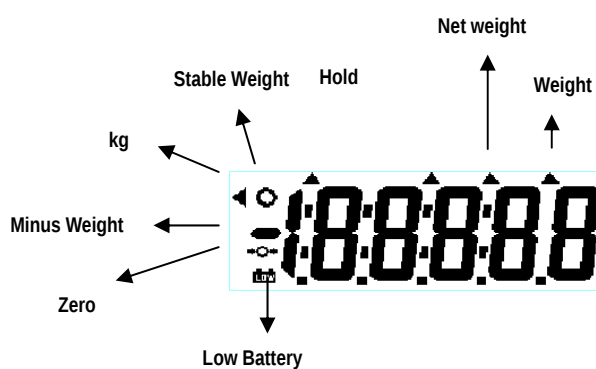
Function Display Symbols

Stable symbol: To indicate that the weight is stable.

Minus weight: Weight under zero.

Zero symbols: Weight is at zero point.

Low battery: Battery need to charge or replaced.



6. INSTALLATION

After removing the instruments from the packing check the integrity and right contents

Put the scale far from source from of heat e vibration.

Put the scale on stable surface.

Indicator assembly (is not assembled)

Run the cable through the tube

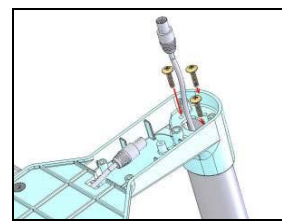
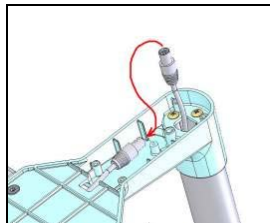
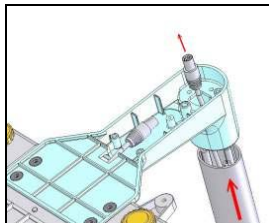


Run the cable through the tube. Setup the bracket.

Screw to the holes.



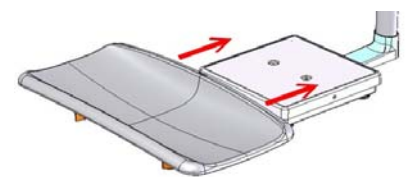
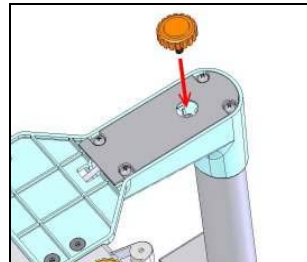
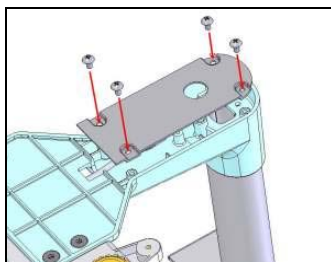
Indicator Column assembly with platform



1. Run the cable through the column.

2. Connect the jack cable

3. Tighten the three screws of the base by turning



4. Align the platform on the base

5. Fit the adjustable foot.

6. Insert weight tray

and tighten the screws

7. ISTRUCTION FOR USE**Weighing**

Switch on the scale using  key. The diagnostic scale self-check is performed and the software version is displayed.

The „0,00 kg” weight displays on the screen, now the scale is ready for weighing.

Note: If display is not at 0.0kg while switching power on. Kindly press  key to zero the scale which can be used at any time to zero the scale.

Hold function

BABY TWO is provided with the integrated hold function (determination of average value). It enables baby to be weighed accurately even they keep moving.

Once the HOLD key is pressed, the weight reading will remain on the display after the item has been removed from the scale so the reading can easily be read.

Switch 'ON' the scale using . The diagnostic self-checks is performed. The scale is ready for weighing when the „0.0 kg” displays on the screen.

Place the baby in the center of the tray gently.

Press . When the triangle is flashing on the display, the scale records the fluctuating weight values and then calculates average weight and displays the result on the screen.

Remove the baby from the scale tray. The baby's weight reading will remain on the display.

Press  again to return the scale to the normal weighing mode.

HOLD function can be activated before or after putting the weight on the baby tray. But in case of weighing unstable, it is recommended to press  before put baby on the baby tray.

Funzione Tara

Tare allows the user to zero the instrument to cancel the weight of a container/ clothes from the reading of the instrument, thus giving the true weight of the product/ person being tested.

Turn on the scale using  key.

When  displays on the screen and scale beeps twice, Place the object (clothes) need to be tare on the tread platform.

Press  after the weight stabilizes and stable sign appears on the display.

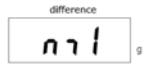
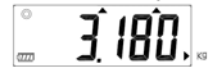
Display will return to 

Place the item/ baby need to be weighed (without removing the tare object). The weighing result is the Net weight of the item / baby.

To delete the saved tare value, remove the tare object from the tray and press  key again

Using memory function (Milk difference)

This function allows automatically calculates the amount of Milk consumed

After weighting, the top row display will show the weight, for example: 3.000kg.	
Press  key to store the first weight, the second display will show "m1".	
And then press  again to return to normal mode.	
When the second weight be stored, (for example: 3.180kg), press  key the display will show the difference between the first and second weight.	
Press  key to go back to normal mode, and clear the "m1" data.	
	

Note:

- This function is working only with continues on power. To cancel this function press  and .
- By AC adapter: the scale still ON always.
- By battery: after not using of 3 minutes, the scale will OFF automatically, please keep touch by hand the tray.
- If the difference value is over then 1000g, the display will show

8. PRINTER FUNCTIONS

Weight can be printed for records using RS232 interface cable.

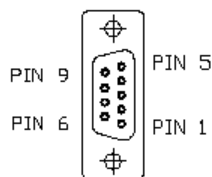
After weighing simply press PRINT key to print out the results.

The format presented below is the standard format of results print-out and cannot be changed.

More informations info@wunder.it or service@wunder.it

GROSS WEIGHT 10.00kg TARE WEIGHT 1.00kg NET WEIGHT 9.00kg	Set parameters of the scale interface on the connected device. It is not possible to change the scale parameters. Baud rate: 9600 bps Parity check: None Data length: 8 bits Stop bit: 1 bit Handshake: RTS/CTS Data code: ASCII
--	---

Seriale RS232



Piedino	Segnale
2	TX
3	RX
5	GND

Connector RS232

Connecting with PC

- Start Hyper Terminal

Start Hyper Terminal program from clicking

Start Menu → Programs → Accessories → Communication → Hyper Terminal.

- New Connection Description

Give new connection a name then click OK.

- Select Your COM Port

Click Connect to select your COM port. Usually there's only one option for select. Then click OK.

- Port Settings

Click Bits per second to set up rate at 9600, Data bits at 8, Parity at None, Stop bits at 1 and Flow control at Hardware. Then click OK to complete your setting.

- Output Data

When press the PRINT key to output data from scale to PC or an Optional Printer.

Instruction for charging and connecting

If **Lo** prompt displays on the LCD, please charge the scale with exclusive adaptor.

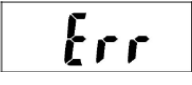
Locate adaptor plug on the rear side of indicator.

The battery should be recharged at least every 3 months regardless if it is used or not. After a long period in storage, e.g. over 3 months, the battery should run a full cycle (charge/discharge) to allow it to restore to full capacity.



AC Jack connector

9.ERROR MESSAGE

ERROR MESSAGE	REASON	ACTION
	Low Battery: This warning shows that the voltage of battery is too low to use	Please replace a new battery or plug the AC adaptor for operation.
	Overload: The total load exceeds the maximum capacity of scale	Please reduce the loading and try again.
	Counting error (too high): Indicates that the signal from the load cell/s is too height	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local service representative.
	Counting error (too low): Indicates that the signal from the load cell/s is too low	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local service representative.
	Zero count over calibration zero range +10% while power on	Please re-calibrate the instrument.
	Zero count under calibration zero range -10% while power on	Please re-calibrate the instrument.
	EEPROM Error: Indicates that there is a fault with the scales software	This error is normally caused by a serious fault on the scales such as a faulty load cell or wiring. Please contact the local service representative.

10. MAINTENANCE AND ASSISTANCE

For better and longer duration of the product it should receive thorough general cleaning periodically.

The instrument must be cleaned with a soft cloth moistened with water or neutral detergent, without using solvents or abrasive substances.

If the instrument remains idle for a long period, remove the batteries from the terminal.

During shipping, make sure not to subject the instrument to blows or excessive mechanical stress.

In case of repairs or assistance, contact your dealer or an authorised service centre contacting service2@wunder.it or sales@wunder.it.

11. CONFORMITY

WUNDER MODEL BABYTWO ELECTRONIC SCALE SERIAL N°

We hereby certify that this instrument has been inspected and has successfully passed the functional test.
It complies with the following standards and directives:

EN 45501 / EN60601-1-2 / EN60601-1

93/42/EEC – Medical Devices Directive

12. IDENTIFICATION LABELS

WUNDER SA.BI.srl DK 0199.336 M CE 13 0291 Baby 02 (WU 150) III Max 10 kg/20 kg e=5g /10g T = -20 kg 5°C / 35°C Matr.n°0058	BABY 02 VANO BATTERIE Per la sostituzione della batteria (modello ricaricabile tipo :RETC 7,2 V 2000 mAh vedere il manuale di istruzioni) To replace the battery (rechargeable sealed type :RETC 7,2 V 2000 mAh see the manual)
Temperatura di stoccaggio: 0-60°C Storage Conditions Temperature :0-60°C BABY 02 stoccaggio	WUNDER Sa.Bi. S.r.L. CE 12V 2A Model :BABY 02 (WU 150) Internally powered equipment with battery or supplied by external model AD-8057 (DK) Internamente alimentata con batteria o da AC/DC alimentatore esterno modello AD-8057 (DK) SER. NR.
CONFORME ALLA DIRETTIVA 93/42 CEE CE 0470	

13. SCRAPPING AND WASTE DISPOSAL

If set aside for a long period, protect those parts which could be damaged due to dust build-up

Scrapping

When you decide to no longer use this item, we recommend making it unusable. We also recommend making those parts which could be sources of danger harmless

Waste disposal EU 2002/96/EC

This product complies with the EU Directive 2002/96/EC. The symbol of the crossed-out waste bin on the appliance indicates that the product, needing to be treated separately from household waste, at the end of its useful life must be completed in a separate collection facility for electric and electronic appliances or returned to the dealer upon purchase of a new equivalent appliance. The user is responsible for bringing the appliance to an appropriate collection structure at the end of its life. Appropriate separate collection and sending the appliance for recycling, treatment and environmentally compatible waste disposal contributes to avoid possible negative effects on the environment and health and favours the recycling of the materials the product is made of.

For more detailed information regarding available collection systems, contact your local waste disposal service or the shop where the product was purchased.

As consumers, you are obliged by law to return used or dead batteries. You may deposit old batteries at public collection spots in your town or else with any battery dealer who has placed specific collectors for this purpose. Even when scrapping electric and electronic appliances, they must be removed and deposited in specific collectors.

NOTE: The following symbols indicate the presence of harmful substances

Pb Pb = batteries containing Lead

Cd Cd = batteries containing Cadmium

Hg Hg = Batteries containing Mercury



ATTENTION!

Do not throw electric parts and used batteries away with household waste. Dispose of the batteries by means of your closest collection centres.

14. WARRANTY

This certificate must be kept until the warranty has expired.

It must be presented together with the invoice, tax receipt or delivery note providing the name of the dealer and date of purchase whenever a technical intervention is required.

Otherwise the user will lose any warranty rights.

The warranty takes effect from the date of purchase and is valid during the entire period foreseen by the current catalogue/pricelist.

By warranty we mean the replacement or repair free of charge of parts making up the appliance which, at the discretion of the manufacturer, are deemed faulty from the origin; Wunder therefore has the faculty of repairing or replacing the item.

The warranty does not cover:

- shipping faults, damage caused by falls, carelessness or tampering
- damage caused by incapability of using the appliance and of its improper use
- damage caused by an insufficient or inadequate electrical system or alterations resulting from environmental, climatic or other types of conditions
- damage due to incorrect installation of the appliance and repairs carried out by unauthorised personnel
- Interventions at home for convenience controls or presumed defects
- Routine maintenance and that which can be considered normal wear from use
- consumables such as: power supplies, batteries, keyboards, plates, wheels, heads, rolls, load cells faulty due to blows or overloads

Service can also be refused when the appliance has been changed or transformed in any way.

In case of interventions at one's home, the customer must pay the fixed fee; if however the appliance is repaired at an authorised Wunder Service Centre, expenses and relative travel risk are borne by the user.

Wunder will not be held liable for damage of any nature caused directly or indirectly to persons, animals or objects resulting from failure to comply with all the instructions indicated in this manual or anyway resulting from improper use.

The Court of Bergamo has jurisdiction in case of any dispute

15.INSTALLATION BABY HEIGHT ROD

For the installation of digital height rod proceed as follow:

	Fig.A	A) Apply the support of height rod to the scale's tray through the two screws supplied. (Figure .a).
	Fig.B	B) Insert the digital height rod into the support previously applied to the scale's tray. (Figure.b)
	Fig.C	C) The installation is now complete. (Figurec)

16. INSTALL SECURITY BRACKETS

FIG 1

1. LOOSEN THE PLATE AND REMOVE THE FEET.
(fig.1)



FIG. 2

2. PLACE THE BAR AND SCREW THE ADJUSTABLE FEET.
(fig.2)



FIG.3

3. TURN THE SCALE AND MOUNT THE PLATE .
(fig 3)