



Infant Scale & Stand-on Floor Scale

USER MANUAL

MS4200/MS4202L

Infant Scale & Stand-on Floor Scale



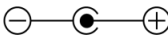
Please keep the instruction manual at hand and follow instruction for use.

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Explanation of Graphic Symbols on Label/Packaging

Text/Symbol	Meaning
	Caution. Failure to follow instructions may result in adverse events
	Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC. Do not dispose of device with everyday waste
	Name and address of device manufacturer
	Carefully read user manual before installation and usage, and follow instructions for use.
	Medical electrical device, Type B applied part
	Device catalogue number
	Name and address of authorized representative in the European Union (applicable for medical devices only)
	Device is a medical device. Text indicates device category type
	Manufacturer's batch or lot number for device
	Device's serial number
	Device's model number
	Device's Unique Device Identifier (01) GTIN (11) Production date (21) Serial number
	Value in mass units. This is the difference between two consecutive display values, used to classify and verify a scale

	Device conforms to (EU) 2017/745 Regulation on Medical Devices. Four digit number is identifier for medical device Notified Body
	Device claims conformity with essential regulations set by the relevant European Union legislation
	Device complies with EU directives M : Conformity label in compliance with Directive 2014/31/EU for non-automatic weighing instruments 17 : Year in which conformity verification was performed and the CE label was applied. (ex: 17=2017) 0122 : Identifier for metrology Notified Body
	Device is a Class III scale in compliance with Directive 2014/31/EU
	Name and address of entity importing device
	Name and address of entity responsible for translating Information For Use
CON.	Event counter recording how many times protected-mode parameter adjustments relating to metrology-related characteristics (ex: gravity value) have been conducted for device
	Device has received Taiwan NCC approval
	Device conforms to U.S. Federal Communications Commission regulations
	Device complies with all UK applicable product legislation
	Device's polarity of power.

In case of differences, icon on device itself takes precedence.

Copyright Notice

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I. Safety Notes

A. General Information

Thank you for choosing this Charder Medical device. It is designed to be easy and straightforward to operate, but if you encounter any problems not addressed in this manual, please contact your local Charder service partner.

Before beginning operation of the device, please read this user manual carefully, and keep it in a safe place for reference. It contains important instructions regarding installation, proper usage, and maintenance.

Intended Purpose

This medical device is designed to be used in accordance with national regulations, to measure weight within specifications, for weight-related usage by professionals.

For the sake of consistency, "patient" will be used to refer to infants or toddlers for the rest of this document.

Patient is placed on a tray or sling which is attached to a weighing platform for the device to measure patient weight.

Clinical Benefit

Measurement results can be used by professionals to diagnose (and monitor) weight-related issues.

Intended medical indications/contraindications

Measurement: patient's body weight. No known contraindications to measurement of body weight.

Intended patient profile

- (a) Age: no restrictions (subject to size limitations of device and maximum capacity)
- (b) Weight: no restrictions within device weight capacity
- (c) Patient Conditions: require measurement of body weight. Can fit upon device.

Intended user profile

- (a) At least 20 years old
- (b) Minimum knowledge:
 - To be able to read at a high-school level and understand Arabic numerals (e.g. 1, 2, 3, 4...)
 - Basic hygiene knowledge
 - Trained in device's operation
 - Read the instruction manual
- (c) Language
 - Able to read the language of instruction manual and on-screen instructions
- (d) Qualifications
 - No special certifications or qualifications required

Residual Risk Evaluation

- (a) All foreseeable risks have been evaluated and considered acceptable. Generally speaking, the most likely risk caused by incorrect usage of the device is less accurate measurement (or inability to use device to acquire measurement), which does not pose imminent physical risk to patient or user.
- (b) Benefit-risk ratio is considered acceptable. Infant scales are an important option for measuring patients. Usage of device is unlikely to result in harm to user or patient.

General Handling

- Ensure all parts are properly locked and tightened before operating the device.
- Measurement accuracy requires the subject's feet, back, and head to be straightly aligned. Please note that height can vary throughout the day
- **CAUTION:** Do not use next to equipment that may cause electromagnetic or other types of interference.

Safety Instructions

Before putting device into use, please read this user manual carefully. It contains important instructions for installation, usage, and maintenance of device.

The manufacturer shall not be liable for damages caused by failure to heed the following instructions:

- The device has an expected service life of 5 years when correctly handled, serviced, and periodically inspected in accordance with manufacturer's instructions.
- Improper installation will render the warranty null and void.
- Observe permissible ambient temperatures for use

Maintenance

- Please contact your local Charder distributor for regular maintenance and calibration, regular checking of accuracy is recommended; frequency to be determined by level of use and state of device.

Cleaning

- Device surface should be cleaned using alcohol-based wipes.

Warranty/Liability

- The period of warranty shall be eighteen(18) months, beginning on the date of purchase. Please retain your receipt as proof of purchase.
- No responsibility shall be accepted for damage caused through any of the following reasons: unsuitable or improper storage or use, incorrect installation or commissioning by the owner or third parties, natural wear and tear, changes or modifications, incorrect or negligent handling, chemical, electrochemical, or electrical interference, unless damage is attributable to negligence on the part of Charder.
- This device does not contain any user-maintained parts. All maintenance, technical inspections, and repairs should be conducted by an authorized Charder service partner, using original Charder accessories and spare parts. Charder is not liable for any damages arising from improper maintenance or usage. Dismantlement of the device will void the warranty.

Incident Reporting

- Any serious incident that has occurred in relation to the device should be reported to the manufacturer, EU representative (if device is used in EU member state), and competent authority of user/subject's member state.

B. EMC Guidance and Manufacturer's Declaration

Guidance and manufacturer's declaration-electromagnetic emissions		
The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The product uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class A	The product is suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations /flicker emissions IEC 61000-3-3	Compliance	

Guidance and manufacturer's declaration-electromagnetic immunity

The product is intended for use in the electromagnetic environment specified below. The customer or the user of the product should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge(ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines	± 2 kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0% UT for 0,5 cycle 0% UT for 1 cycle 70% UT(30% dip in UT) for 25cycles 0% UT for 5 s	0% UT for 0,5 cycle 0% UT for 1 cycle 70% UT(30% dip in UT) for 25cycles 0% UT for 5 s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the product requires continued operation during power mains interruptions, it is recommended that the product be powered from an uninterruptible power supply or a battery.
Power frequency(50, 60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	The product power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

NOTE UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration-electromagnetic immunity

The product is intended for use in the electromagnetic environment specified below.

The customer or the user of the product should assure that is used in such and environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 KHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3 Vrms 150 KHz to 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	Portable and mobile RF communications equipment should be used no closer to any part of the product including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	3 V/m 80MHz to 2,7 GHz	3 V/m 80MHz to 2,7 GHz	Recommended separation distance: $d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800MHz to 2,7GHz Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b
			Interference may occur in the vicinity of equipment marked with the following symbol:
			

NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the product is used exceeds the applicable RF compliance level above, the product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the product.

b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Recommended separation distance between portable and mobile RF communications equipment and the product

The product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the product as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	<u>800 MHz to 2,7 GHz</u> $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

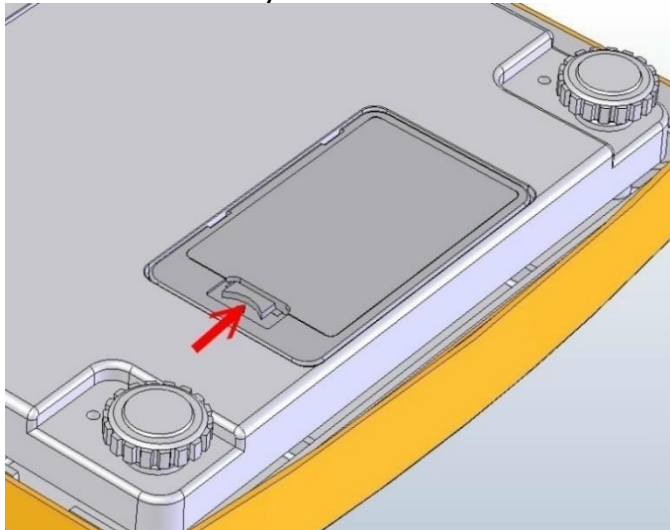
NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

II. Installation

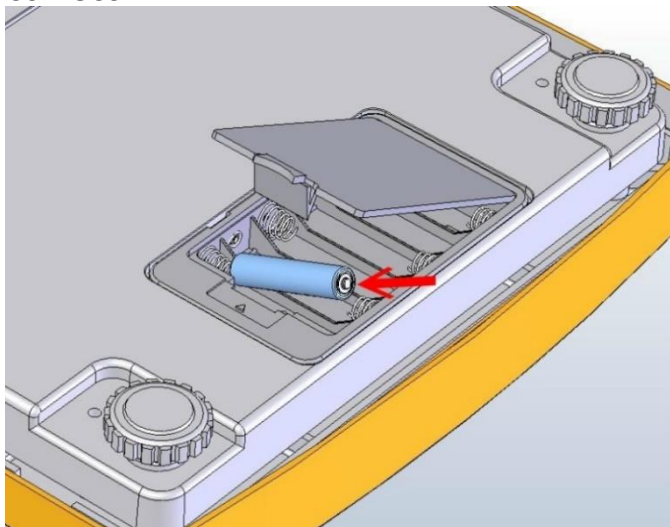
Device can be used once batteries are installed (or adapter) is plugged in.

A. Inserting Batteries

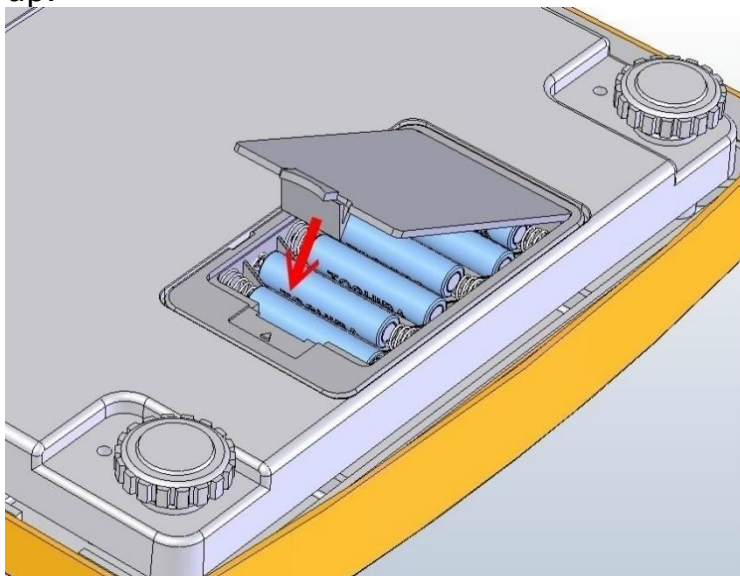
1. Locate battery cover on bottom of device



2. Remove battery cover. Insert batteries. Ensure polarity is correct.

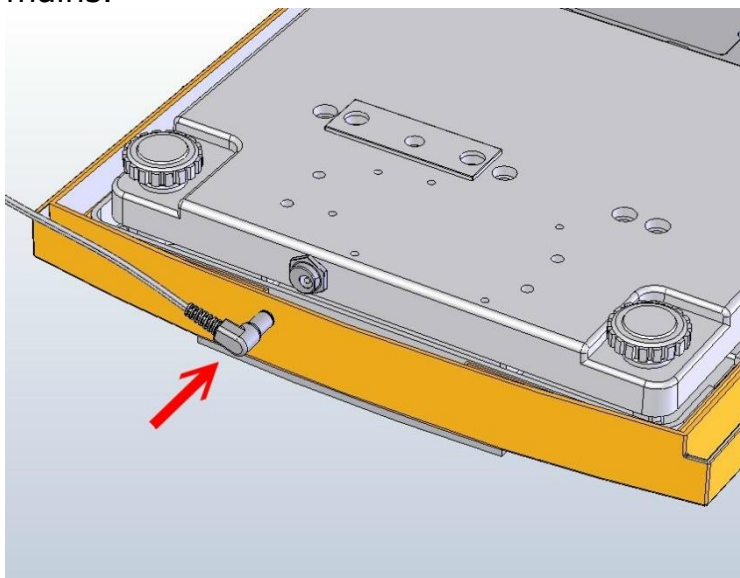


3. Insert all batteries. Close cover and turn scale right-side up.



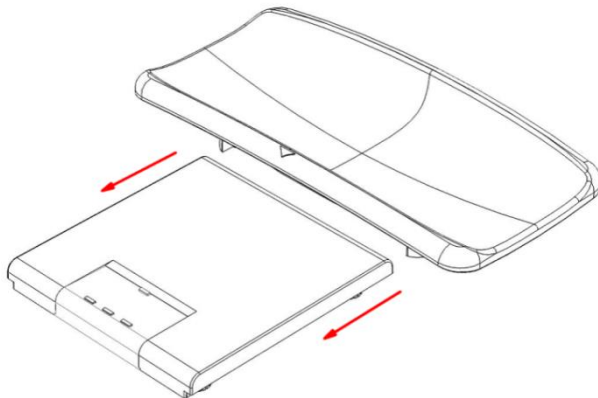
B. Using Adapter

Device can be powered via adapter using port located at rear of device. Plug adapter into device before plugging into mains.

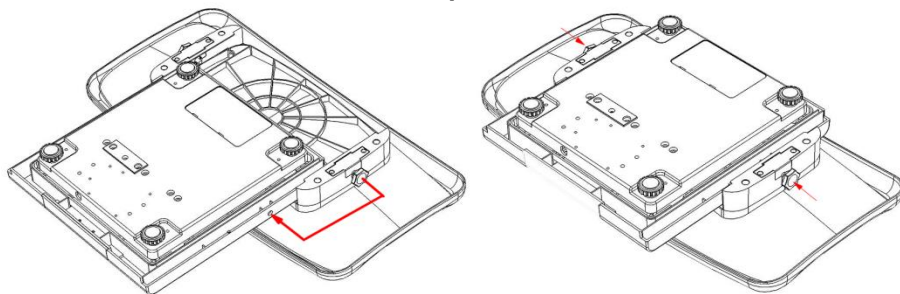


C. Attaching tray (MS4200)

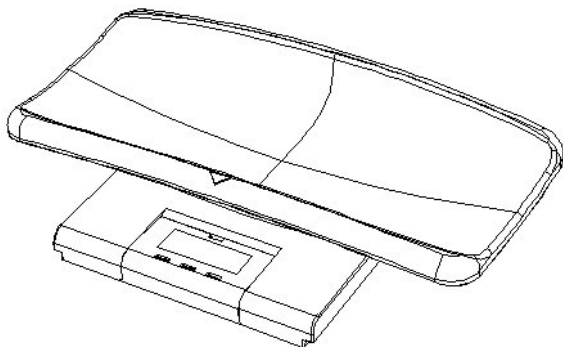
1. Slide tray onto device



2. Turn device upside down. Secure tray to device by turning knob on each side of tray. (turn clockwise to tighten, turn counter-clockwise to loosen)

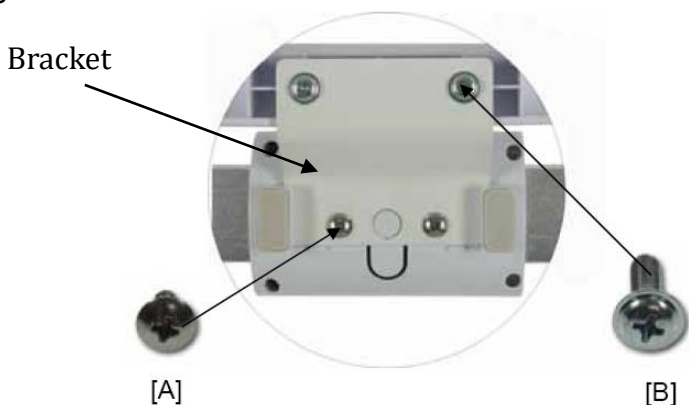


3. Device can now be used for measurement.

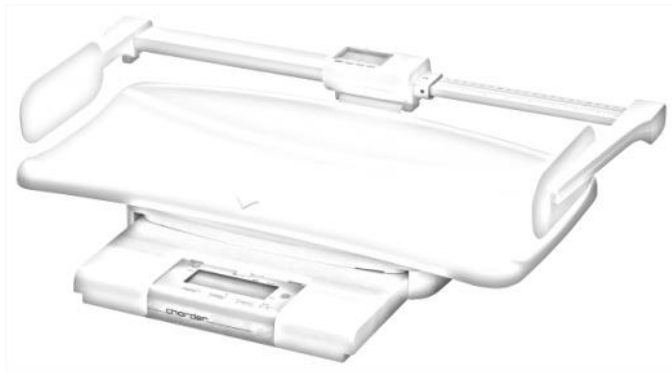
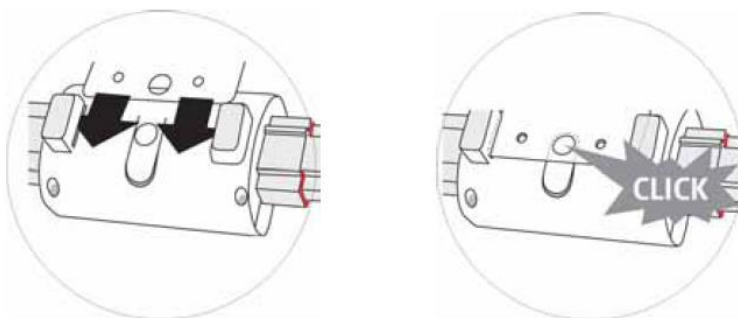


D. Height Measure Attachment (MS4200)

1. Attach bracket to device and baby tray, and fasten screws using screwdriver.



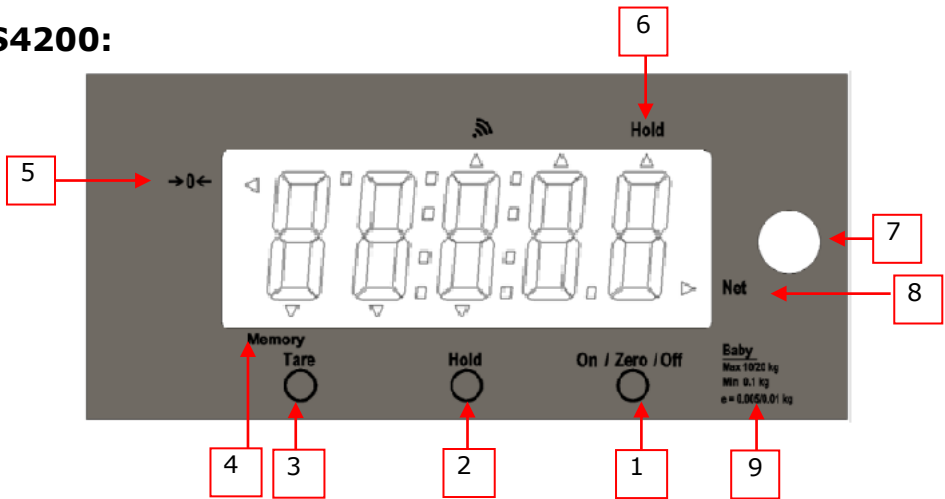
2. Connect height measure attachment to bracket. A clicking noise will be heard.



III. Indicator

Indicator and Key Functions

MS4200:



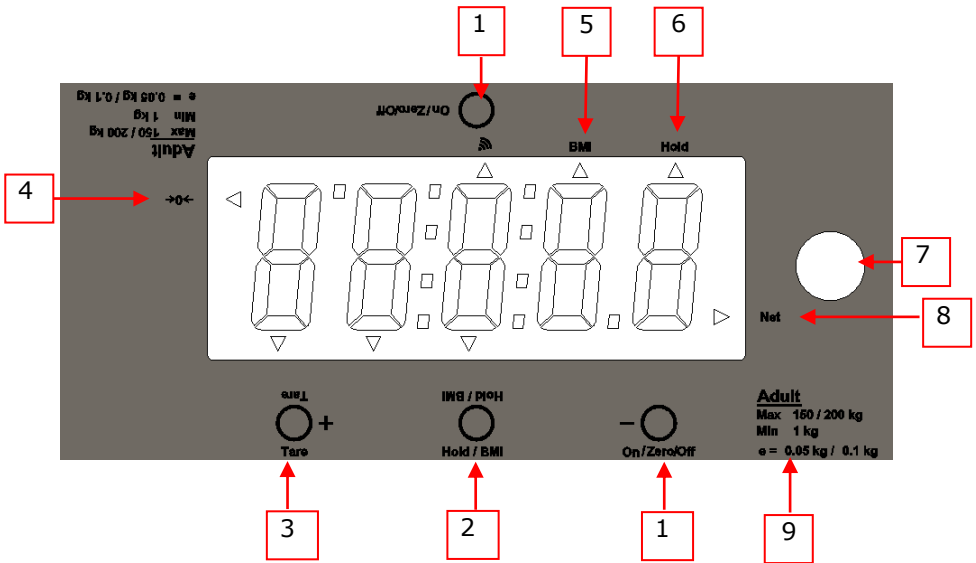
Key Functions

1. **On/Zero/Off**: Turn device on and off. Zero scale ($\pm 2\%$ of full capacity). Press and hold for 3 seconds to enter settings.
2. **Hold**: Determine stable weighing value - used when weight is unstable.
3. **Tare**: Deduct weight from reading after measurement

Indicator Symbols

4. Memory: Infant weight is saved
5. Zero Indicator: Device is at zero
6. Hold: Determine if weight lock mode (hold) is active
7. Level Indicator: Determine if device is level
8. Net: Net weight is currently displayed on screen
9. Scale Specification: Capacity and graduation of device

MS4202L:



Key Functions

1. **On/Zero/Off**: Turn device on and off. Zero scale ($\pm 2\%$ of full capacity). Press and hold for 3 seconds to enter settings.
2. **Hold/BMI**: Determine stable weighing value - used when weight is unstable. Press and hold to activate BMI function.
3. **Tare**: Deduct weight from reading after measurement

Indicator Symbols

4. Zero Indicator: Device is at zero
5. BMI: BMI result is currently displayed on screen
6. Hold: Determine if weight lock mode (hold) is active
7. Level Indicator: Determine if device is level
8. Net: Net weight is currently displayed on screen
9. Scale Specification: Capacity and graduation of device

IV. Using Device

A. Basic Operation

Switch on the device using **[On/Zero/Off]** key. The device will automatically perform self-calibration, displaying software version.

Once "0.00 kg" appears on indicator, device is ready for measurement.

Note: If "0.00 kg" does not display on indicator, press **[On/Zero/Off]** key to zero the device. This function can be used for weight within $\pm 2\%$ of full capacity.

Guide subject to stand upon the measurement platform. After the weight has stabilized, the "stable" symbol will appear on indicator.

Note: If subject's weight exceeds scale capacity (including tare), indicator will display "Err" prompt due to overload.

B. Tare

The tare function allows the user to deduct the weight of objects from the device's measurement result. Tare can be used when weight of object is $\geq$ at/above 2% of 20 kg capacity.

1. Place object that needs to be tared onto measurement platform.
2. Press **[Tare]** key after stable symbol appears on indicator. Display will indicate "0.00 kg".
3. Guide subject (plus tared object) to stand upon measurement platform. Conduct measurement.
4. To clear tare value, remove all objects from measurement platform, and press **[Tare]** key.

C. Hold

The hold function determines average weight, designed to be used if subject's weight will not stabilize (ex: an active child).

Note: if fluctuation is too severe, average weight determination will be difficult and hold may not function correctly

1. Switch on the device normally.
2. Press the **[Hold/BMI]** key. "HOLD" will be displayed on the indicator.
3. Guide subject to stand on measurement platform.
4. After a few seconds, the average weight will be displayed on the indicator. This weight will be locked - at this point, subject can step off from device.
5. To release the locked weight, press the **[Hold/BMI]** key again to return to the device to normal mode.

Note: Hold function can be activated before or after subject stands on measurement platform. However, if subject finds it difficult to hold still, we recommend activating Hold after subject stands on platform.

D. BMI

1. In normal mode, press and hold the **[Hold/BMI]** key to enter BMI mode.
2. Display will show last recorded height. Left-most digit will flash.
3. Enter height. Press **[TARE]** key to increase value, press reverse **[On/Off/Zero]** key to decrease value. Press and hold to speed up.
4. After inputting height, press **[Hold/BMI]** to confirm.
5. Proceed to weigh subject as usual. Indicator will alternate between weight and BMI.

6. Press **[Hold/BMI]** key to return to normal mode.

Category	BMI (kg/m²)	Risk of obesity-related disease
Under	< 18.5	Low
Normal	18.5-24.9	Average
Over	24.9-29.9	Slightly Increased
Obese I	30.0-34.9	Increased
Obese II	35.0-39.9	High
Obese III	> 40	Very High

(World Health Organization adult BMI standards)

V. How to use Milk Intake Function(for MS4200 only)

1. Place the infant on the scale.
2. Allow the weight of the baby to stabilize on the display and then press **[Tare]** key for 3 seconds to save infant weight. **"SAVE"** will appear on screen. Triangle symbol above **"Memory"** will appear and flash if the infant's weight has been successfully saved.
3. Feed the baby as normal.
4. Once feeding is complete, place the infant on the scale then press **[Tare]** key for 3 seconds. Milk Intake will be displayed on screen. Display will alternate between total weight and milk intake.

VI. Wireless Connection

If the device has the wireless or Bluetooth module installed, the indicator can transmit measurement results wirelessly. Please see Charder wireless or Bluetooth software instructions for details.

VII. Device Setup

When the device is switched on, press and hold the **[On/Zero/Off]** key until the display shows "SET" followed by " A. OFF" (first option in setting menu).

In device setup menu:

[Hold/BMI] to toggle menu option

[Tare] to confirm selection / enter submenu

The image shows a digital LCD display with the text "A OFF" in a segmented font. The "A" is slightly larger and positioned to the left of "OFF".

Auto Power-Off: Instruct device to shut off automatically after a certain period of time.

Auto off options: 120 sec / 180 sec / 240 sec / 300 sec / off

Press **[Hold/BMI]** to toggle between time options, and **[Tare]** to confirm selection.

The image shows a digital LCD display with the text "DATE" in a segmented font, oriented horizontally.

Set device date: Format/order is YYYY/MM/DD/HH:MM.

The image shows a sequence of three digital LCD displays connected by right-pointing arrows. The first display shows "2013", the second shows "0308", and the third shows "1200".

Year Month. Day Hour. Minute

Press **[Hold/BMI]** to toggle between digits, **[Tare]** to increase, and **[On/Off/Zero]** to confirm input.

The image shows a digital LCD display with the text "b lue" in a segmented font. The "b" is slightly larger and positioned to the left of "lue".

Bluetooth (optional): If device has Bluetooth module installed, Bluetooth function can be turned on or off.

Press **[Hold/BMI]** to toggle between on/off, and **[Tare]** to confirm selection.

Wi-Fi (optional): If device has Wi-Fi module installed, Wi-Fi function can be turned on or off.

Press **[Hold/BMI]** to toggle between on/off, and **[Tare]** to confirm selection.

Wi-Fi Setting (optional): If device has Wi-Fi module installed, this option will appear.

Press **[Hold/BMI]** to toggle between "Auto" and "PKEY".
Press **[Tare]** to confirm selection.

If "Auto" is selected, weight measurement will be automatically sent to connected printer or device. If "PKEY" is selected, transfer will occur manually only after command.

VIII. Troubleshooting

Product Defects

Charder's warranty is effective for the original purchaser of this device, subject to the terms and conditions listed in the Warranty Program & Return Policy.

1. If Charder is responsible for a fault or defect present upon receipt of the unit, Charder shall either repair the fault, or supply a replacement unit. Should the repairs or replacement delivery fail, statutory provisions shall be valid. The period of warranty shall be two years, beginning on the date of purchase. Please retain your receipt as proof of purchase.

2. No responsibility shall be accepted for damage caused through any of the following reasons: unsuitable or improper storage or use, incorrect installation or commissioning by the owner or third parties, natural wear and tear, changes or modifications, incorrect or negligent handling, chemical, electrochemical, or electrical interference, unless damage is attributable to negligence on the part of Charder.

If device is not covered under warranty, a service maintenance charge will apply, plus cost of replacement parts.

Before contacting your local Charder distributor for repair service, we recommend considering the following troubleshooting procedures:

Self-inspection

1. Device will not power on

- If battery power is depleted, replace with new batteries
- If batteries are not used, check if the power adapter is plugged into the device properly. Check if power adapter is plugged into mains properly

2. Indicator showing "00000" ZERO SPAN out of range

- Interference due to factors such as RF disturbance or ground vibration. Relocate device to location without interference and try again
- Unstable platform. Relocate device to stable location and try again
- External objects interfering with measurement platform. Clear platform of objects and try again
- Device may not function properly on soft surfaces such as carpets or lawns. Relocate device to location with solid, stable floor
- If the steps above cannot resolve the problem, re-calibration may be required to correct weighing accuracy

Distributor support required

If the following errors occur, we recommend contacting your local Charder distributor for repair or replacement services:

1. Device will not power on

- Faulty on/off key
- Broken or damaged wires causing short circuit or faulty connection
- Safety fuse burnout
- Faulty adapter

2. Indicator damage

- Possible hardware defects include: uneven brightness in LCD screen, blurred text, smeared rainbow screen, incorrect decimal display
- Unable to save or read data
- Indicator shows "ERRL" after device is switched on
- Keys not responding
- Buzzer malfunction

Error Messages

Error Message	Reason	Action
LobAt	Low battery warning Voltage of battery is too low to operate device	Replace batteries
Err	Overload Total load exceeds device's maximum capacity	Reduce weight on measurement platform and try again
Err.L	Counting Error Signal from loadcells too low	Error normally caused by faulty loadcell or wiring. Please contact distributor
Err.H	Counting Error Signal from loadcells too high	Error normally caused by faulty loadcell or wiring. Please contact distributor
00000	Zero count over calibration zero range +10% while power on	Re-calibration required. Please contact distributor
00000	Zero count under calibration zero range -10% while power on	Re-calibration required. Please contact distributor
Err.P	Program Error Fault with device software	Error normally caused by faulty loadcell or wiring. Please contact distributor

IX. Product Specifications

A. Device Information

Model		MS4200	MS4202L
Weight Measurement	Capacity	0-10 kg x 5g 10-20kg x 10g	0-150 kg x 50g 150-200 kg x 100g
	Accuracy	±1.5e	
	LCD Screen	1.0-inch LCD screen (5 digits)	
	OIML	Class III	
Dimensions	Total	560(W) x 325(D) x 145(H) mm	
	Tray (MS4200)	560(W) x 290(D) x 65(H) mm	
	Platform	325(W) x 310(D) x 50(H) mm	
	Device Weight	4.3 kg	
Key Functions		MS4202L: On/Zero/Off, Hold/BMI, Tare MS4200: On/Zero/Off, Hold, Tare	
Data Transmission		Wireless module (optional) NOTE: Device should be connected to network by qualified distributors only	
Power Supply		AA battery / Power adapter	
Operation Environment		+5°C ~ +35°C 15%RH ~ 85%RH 700 hPa ~ 1060 hPa	
Standard Accessories		User manual x1 Power Adapter x1	
Optional Accessories		Carrying bag, Height Rod, Thermal Printer	

B. Power Adapter Standards

 Warning

The device is only compatible with the manufacturer's power adapters specified below

AMP VOLTAGE	DRAWING NO.:	CE APPROVED TYPE NO. / MODEL NO.:	TYPE	Adapter plug
12V 1A	CD-AD-00044	UES12LCP-120100SPA	US	 90 - degree
	CD-AD-00044	UES12LCP-120100SPA	EU	
	CD-AD-00044	UES12LCP-120100SPA	UK	
	CD-AD-00044	UES12LCP-120100SPA	AU	

Notes

[illegible]

X. Declaration of Conformity

Manufacturer hereby declares that this product is in conformity with the regulations and standards outlined in the following directives:

	(EU) 2017/745 Regulation on Medical Devices
	2014/31/EU N-on-automatic Weighing Instruments Directive

RoHS Directive 2011/65/EU and Delegated Directive (EU) 2015/863

Radio equipment and telecommunications terminal equipment Directive 2014/53/EU
(applicable if device has wireless function)

Part 15 of the Federal Communications Statement Rules

This device may not cause harmful interference
This device must accept interference received without causing undesired operation
(Full Declaration of Conformity is available on manufacturer’s website)

Authorized EU Representative:



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Bd Général Wahis, 53
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Manufactured by:



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