



USER MANUAL

















MS4202L

Stand-on Floor Scale



Please keep the instruction manual at hand all the time for future reference.

Explanation of Graphic Symbols on Label/Packaging

	Caution, consult accompanying documents before use		Authorized representative in the European Community
	Manufacturer of medical device		Indicates that device conforms to International Organization of Legal Metrology (Class III) requirements
	Manufacturing year of medical device		Indicates that device conforms to 2014/31/EU Non Automatic Weighing Instruments Directive. Numerals change according to year of manufacture. (ex: "19" for 2019)
	Separate collection for waste of electrical and electronic equipment, in accordance with Directive 2002/96/EC		Indicates that device conforms to 93/42/EEC as amended by 2007/47/EC Medical Device Directive. Four digit number refers to Notified Body.
	Device catalogue number		Indicates that device conforms to 2014/31/EU Non Automatic Weighing Instruments Directive. Four digit number refers to Notified Body.
	Manufacturer's batch or lot number		Indicates that device is a medical device
	Serial number		Carefully read user manual before installation and usage, and follow instructions for use.
	Unique Device Identifier		Medical electrical equipment with Type B applied part

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 Use

This device is intended to measure the weight of subjects who can stand unassisted, for diagnosis of weight-related issues by professionals.

General Handling

- Device should be placed on stable, flat, solid, non-slippery surface.
- Usage on soft surfaces (ex: carpet) may result in inaccurate results.
- Ensure all parts are properly locked and tightened before operating the device.

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:

- Batteries should be kept away from children. If swallowed, promptly seek medical assistance.
- Expected service life: 5 years.
- Always comply with appropriate regulations when using electrical components under increased safety requirements.
- Improper installation will render the warranty null and void.
- Ensure voltage marked on power supply matches mains power supply.
- The device is intended for indoor use only.

- Observe permissible ambient temperatures for use
- Device meets requirements for electromagnetic compatibility. Do not exceed the maximum values specified in the applicable standards.

Environmental

- All batteries contain toxic compounds; batteries should be disposed of via designated competent organizations. Batteries should not be incinerated.
- The optimum operating temperature for the device is 5°C to 35°C; although it will operate at higher and lower temperatures, battery life will adversely be effected.

Cleaning

- Device surface should be cleaned using alcohol-based wipes. Corrosive cleansing liquids should not be used. Pressure-washers should not be used.
- Do not use large amounts of water when cleaning the device, as it may cause damage to the internal electronics.
- Always disconnect device from mains power before cleaning.

Maintenance

- Please contact your local Charder distributor for regular maintenance and calibration.
- Device does not require routine maintenance. However, regular checking of accuracy is recommended; frequency to be determined by level of use and state of device. If results are inaccurate, please contact local distributor.

Warranty/Liability

- 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.
- 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.

Disposal

- This product is not to be treated as regular household waste, but should be taken to a designated collection points for electronics. Further information should be provided by local waste disposal authorities.



Warning

- Only the original adapter should be used with the device. Using an adapter other than the one provided by Charder may cause malfunction.
- Do not touch the power supply with wet hands.
- Do not crimp the power cable, and avoid sharp edges.
- Do not overload extension cables connected to the device.
- Route cables carefully, to avoid tripping.
- Keep device away from liquids.
- Do not remove the plug by yanking on the cable.
- Use only a correctly wired (100-240VAC) outlet, and do not use a multiple outlet extension cable.
- Do not under any circumstances dismantle or alter the device, as this could result in electric shock or injury as well as adversely affect the precision of measurements.
- Do not place the device in direct sunlight, or in close proximity to an intense heat source. Excessively high temperatures may damage the internal electronics.

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 MS4202L Stand-on Floor Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The device 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 B	The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that 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 MS4202L Stand-on Floor Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device 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	<u>± 8 kV contact</u> <u>± 2 kV, ± 4 kV,</u> <u>± 8 kV, ± 15 kV</u> <u>air</u>	<u>± 8 kV contact</u> <u>± 2 kV, ± 4 kV,</u> <u>± 8 kV, ± 15 kV</u> <u>air</u>	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	± 2kV for power supply lines + 1kV for input/output lines	+ 2kV for power supply lines + 1kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1kV line(s) to line(s) ± 2kV line(s) to earth	+ 1kV line(s) to line(s) + 2kV 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	<u>0% UT for 0,5 cycle</u> <u>0% UT for 1 cycle</u> <u>70% UT(30% dip in UT) for 25 cycles</u> <u>0% UT for 5 s</u>	<u>0% UT for 0,5 cycle</u> <u>0% UT for 1 cycle</u> <u>70% UT(30% dip in UT) for 25 cycles</u> <u>0% UT for 5 s</u>	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery.
Power frequency(50/60 Hz) magnetic field IEC 61000-4-8	<u>30 A/m</u>	<u>30 A/m</u>	The device 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 MS4202L Stand-on Floor Scale is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
<p>Conducted RF IEC 61000-4-6</p> <p>Radiated RF IEC 61000-4-3</p>	<p>3 Vrms 150 KHz to 80 MHz</p> <p><u>6 V in ISM bands between 0,15 MHz and 80 MHz</u> <u>80 % AM at 1 kHz</u></p> <p>3 V/m 80MHz to 2,7 GHz</p>	<p>3 Vrms 150 KHz to 80 MHz</p> <p><u>6 V in ISM bands between 0,15 MHz and 80 MHz</u> <u>80 % AM at 1 kHz</u></p> <p>3 V/m <u>80MHz to 2,7 GHz</u></p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the device including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 80MHz to 800 MHz $d = 2,3 \sqrt{P}$ 800MHz to 2,5 GHz</p> <p>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 metres (m).</p> <p>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.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p>



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 device is used exceeds the applicable RF compliance level above, the device should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the device.
- b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distance between portable and mobile RF communications equipment and the MS4202L Stand-on Floor Scale

The device is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the device can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the device 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 $d = 1,2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2,3\sqrt{P}$
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 metres (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.

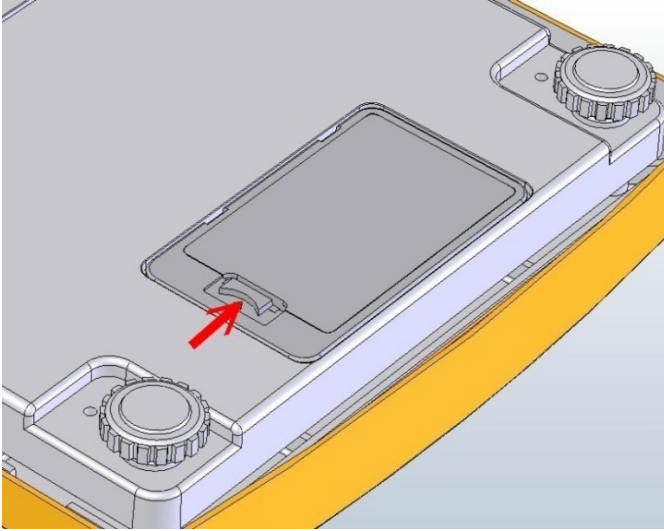
NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

II. Installation

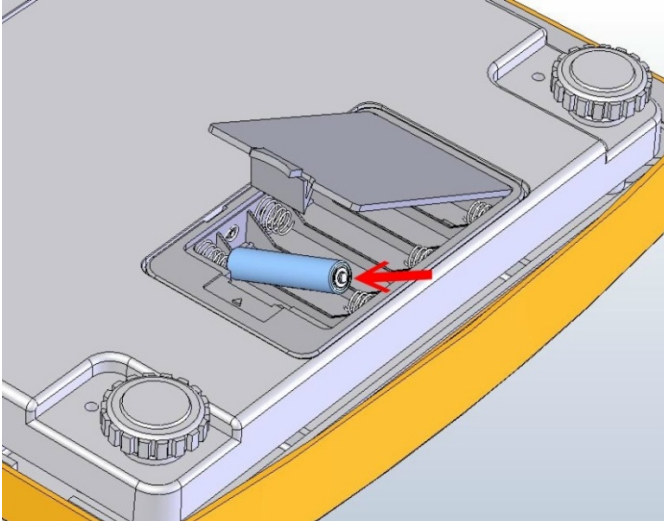
Device can be used once batteries are installed (or adapter) is plugged in.

A. Inserting Batteries

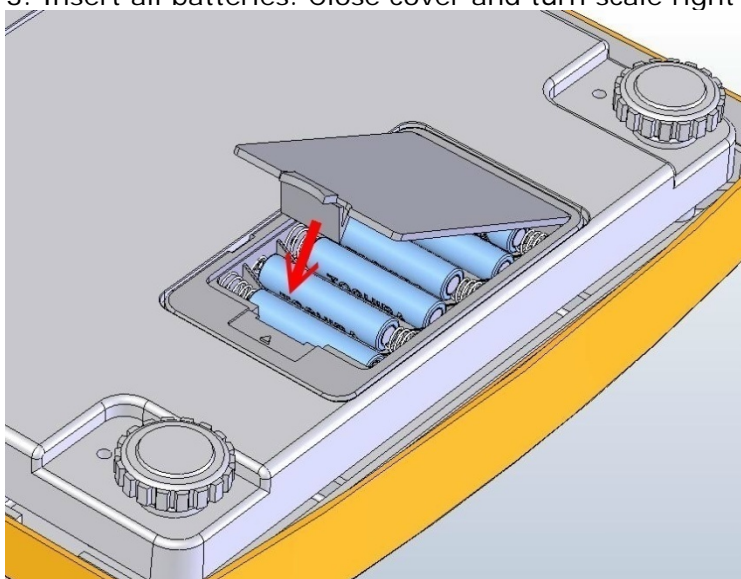
1. Locate battery cover on bottom of device



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

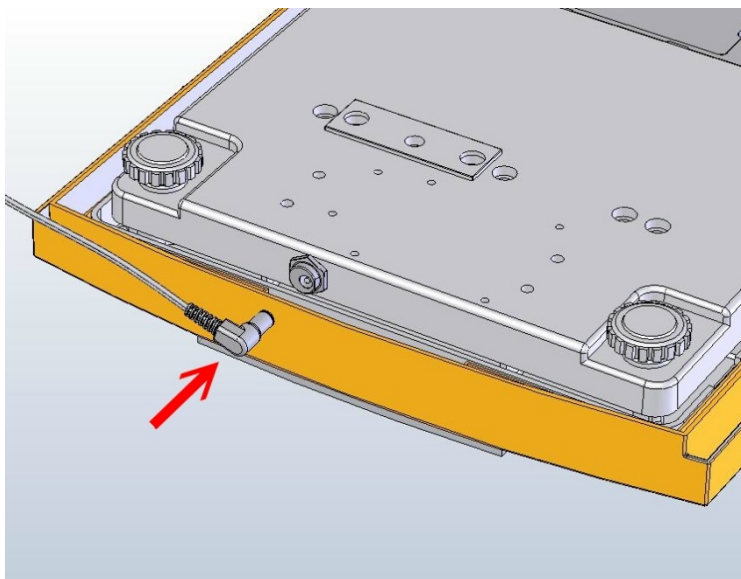


3. Insert all batteries. Close cover and turn scale right-side up.



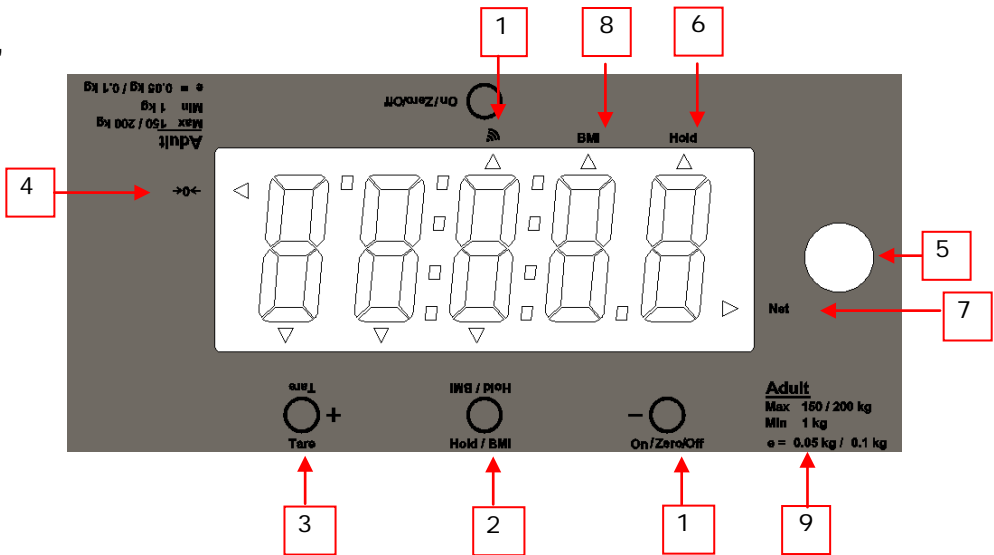
B. Using Adapter

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



III. Indicator

Indicator and Key Functions



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. **Level Indicator**: Determine if device is level
6. **Hold**: Determine if weight lock mode (hold) is active
7. **Net**: Net weight is currently displayed on screen
8. **BMI**: BMI result 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/m ²)	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. 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.

VI. 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

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.

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

Year

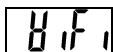
Month.Day

Hour.Minute

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

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.

VII. 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 "0000" 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:


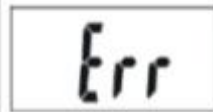
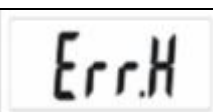
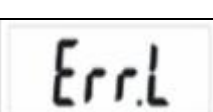
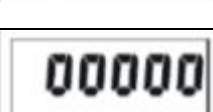

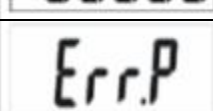
1. Device will not power on

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

VIII. Product Specifications

A. Device Information

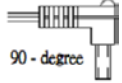

Model		MS4202L
Weight Measurement	Capacity	0-150 kg x 50g 150-200 kg x 100g
	Accuracy	0-150 kg $\pm 75g$ 150-200 kg $\pm 100g$
	LCD Screen	1.0-inch LCD screen (5 digits)
	OIML	Class III
Dimensions	Total	560(W) x 325(D) x 145(H) mm
	Platform	325(W) x 310(D) x 50(H) mm
	Device Weight	4.3 kg
Key Functions		On/Zero/Off, Hold/BMI, Tare
Power Supply		AA battery / adapter
Operation Temperature & Humidity		5°C~35°C 15% / 85% RH
Standard Accessories		User manual x1 12V Power Adapter x1
Optional Accessories		1) Carrying bag, Height Rod, Thermal Printer, 2) Bluetooth (optional) NOTE: Device should be connected to network by qualified distributors only

B. Power Adapter Standards





Warning

The device is only compatible with the power adapters specified in the dashed block below.

AMP VOLTAGE	DRAWING NO.:	CE APPROVED TYPE NO. / MODEL NO.:	TYPE	Adapter plug
9V DC 100mA	AD-038A	D41W1090100-13/1	EU	 90 - degree
9V DC 100mA	AD-0484	D35W090100-23/1	US	
9V DC 100mA	AD-037A	D41WK090100-13/2	UK	
9V 200mA	AD-8082 (AD-0544)	UE05WCP-090020SPC	US	
9V 200mA	AD-8082 (AD-0544)	UE05WCP-090020SPC	EU	
9V 200mA	AD-8082 (AD-0544)	UE05WCP-090020SPC	UK	
9V 200mA	AD-8082A (AD-0544A)	UE05WCP-090020SPC	AU	
12V 0.5A	CD-AD-00011	UES06WOCPU-120050SPA	EU	
12V 0.5A	CD-AD-00011	UES06WOCPU-120050SPA	US	
12V 0.5A	CD-AD-00011	UES06WOCPU-120050SPA	UK	
12V 0.5A	CD-AD-00011	UES06WOCPU-120050SPA	AU	
12V 2A	AD-8058 (AD-0521)	UE24WU-120200SPA	US	
12V 2A	AD-8057 (AD-0520)	UE24WU-120200SPA	EU	
12V 2A	AD-8056 (AD-0519)	UE24WU-120200SPA	UK	
12V 2A	AD-8074 (AD-0534)	UE24WU-120200SPA	AU	
12V 1A	AD-8095	UE24WCP1-120100SPA	US	 180 - degree
12V 1A	AD-8095	UE24WCP1-120100SPA	EU	
12V 1A	AD-8095	UE24WCP1-120100SPA	UK	
12V 1A	AD-8095	UE24WCP1-120100SPA	AU	
15V300mA	AD-8079A (AD-0536A)	UE05WCP-150030SPC	EU	
15V300mA	AD-016D	D41W150300-13/1	US	
15V300mA	AD-8079B (AD-0536B)	UE05WCP-150030SPC	UK	
15V300mA	AD-8079C	UE05WCP-150030SPC	AU	
15V 300mA	AD-0420	D41WI150300-13/1	EU	
15V 300mA	AD-0370	D41WK150300-13/2	UK	
15V 300mA	AD-8079D (AD0536D)	UE05WCP-150030SPC	US	
15V 300mA	AD-0482	D41WA150300-13/2	AU	
12V 1A	AD-8096	UE24WCP1-120100SPA	US	
12V 1A	AD-8096	UE24WCP1-120100SPA	EU	
12V 1A	AD-8096	UE24WCP1-120100SPA	UK	
12V 1A	AD-8096	UE24WCP1-120100SPA	AU	
12V 1A	AD-8084B	UE24WV-120100SPA	EU	
12V 1A	AD-8084	UE24WB-120100SPA	UK	
12V 1.5A	AD-8025A (AD-0527)	GFP181DA-120150B-2	US	
12V 1.5A	AD-8025D (AD-0529)	GFP181DA-120150B-2	UK	

IX. Declaration of Conformity

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

	93/42/EEC as amended by 2007/47/EC Medical Device Directive
	2014/31/EU Non-automatic Weighing Instruments Directive

Please see separate document showing on sticker of device for above CE marking.

Authorized EU Representative:



Obelis s.a.

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Manufactured by:
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