



Bed Scale

USER MANUAL **MS7800**



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

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I.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
	Medical electrical device, Type BF 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

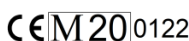


Device conforms to (EU) 2017/745 Regulation on Medical Devices. Fourdigit number is identifier for medical device Notified Body



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
20: Year in which conformity verification was performed and the CE label was applied. (ex: 20=2020)
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



Event counter recording how many times protected-mode parameter adjustments relating to metrology-related characteristics (ex: gravity value) have been conducted for device



Device conforms to Taiwan National Communications Commission(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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II. 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.

Patient lies upon device containing digital scale. Device measures weight of patient using digital scale. Device is used as a transfer board, with weight measurement possible during transfer process. Device displays weight results on indicator after measurement.

Clinical Benefit

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

Intended medical indications/contraindications

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

Intended patient profile

- (a) Age: no restrictions
- (b) Weight: 2-250 kg
- (c) Patient Conditions: require measurement of body weight.

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
 - Able to push bed onto measurement platform. Two users recommended.

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. Bed 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

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			
Theproduct 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: $d = 1,2 \sqrt{P}$ $d = 1,2 \sqrt{P}$ 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 metres (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 rangeapplies.			
NOTE2 Theseguidelinesmaynotapplyinallsituations.Electromagneticpropagation isaffectedbvabsorptionand reflection from structures. objects andpeople.			

- 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.

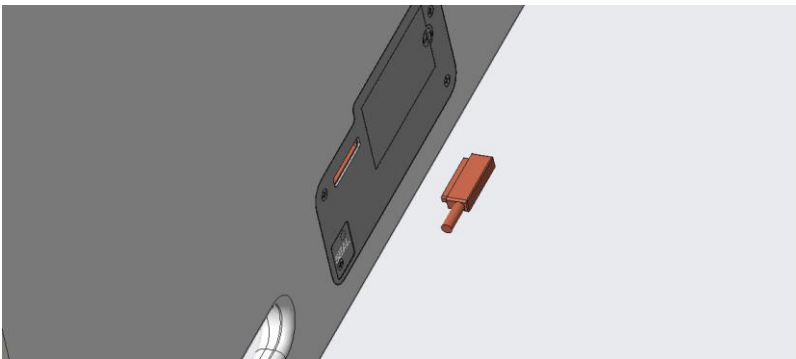
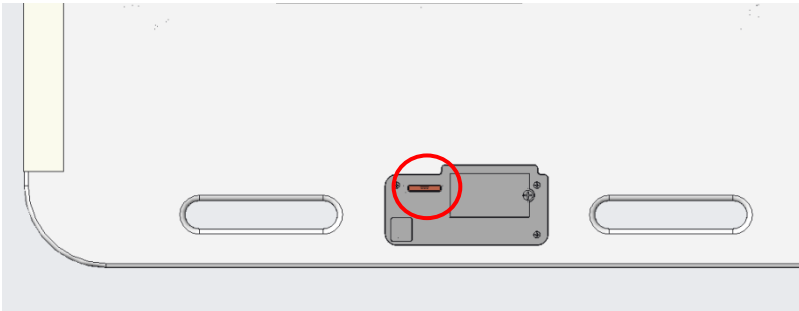
Recommended separation distance between portable and mobile RF communications equipment and the product			
The product is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the product can help prevent electromagnetic interference 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 P_r W	Separation distance according to frequency of transmitter f_m		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2,7 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.			

III. Preparing to use Device

A. Charging Device

Device should be fully charged before first use. Please allow 8 hours for full charge.

When low battery indicator on display appears, please charge battery promptly to avoid battery damage. Charging port is located on underside of device.



The port for the charging cable is magnetic. Clip end of cable in place, and plug other end of cable into power mains. Device cannot be used while charging. Do not use any form of charging cable other than the one supplied with the device.

B. Standard Procedure

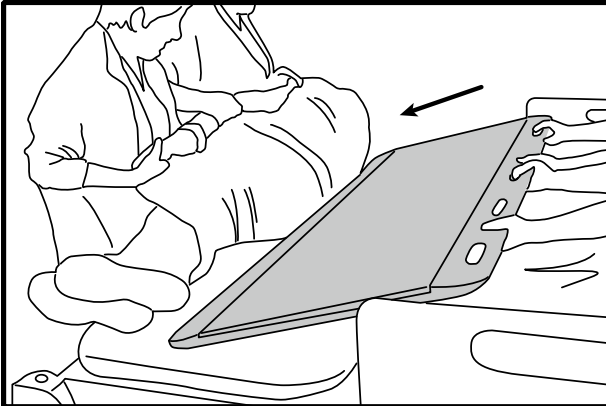
The device should be used in accordance with standard medical moving and handling procedure. It should be used in the same way as a transfer board, with a short period of time reserved in process to allow device to measure subject weight.

SAFETY RULES

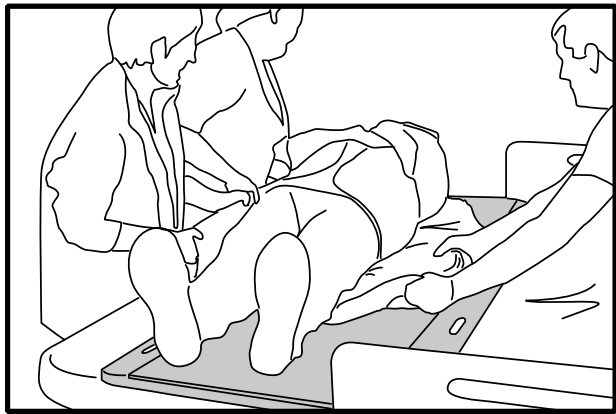
1. Device should only be used by trained professionals
2. Castor wheel brakes on beds should be applied before transfer.
3. Trolley/bed frames should be touching before transfer.
4. There should be no more than 20 cm between beds. At least 20 cm of the device should be on each bed or trolley before transfer.
5. When transferring, two surfaces should be of similar height. A tilt exceeding 3% will affect accuracy. (indicator will display an error if tilt exceeds 3%).
6. Do not overload. Maximum capacity: 250 kg / 550 lbs.

INSTRUCTIONS

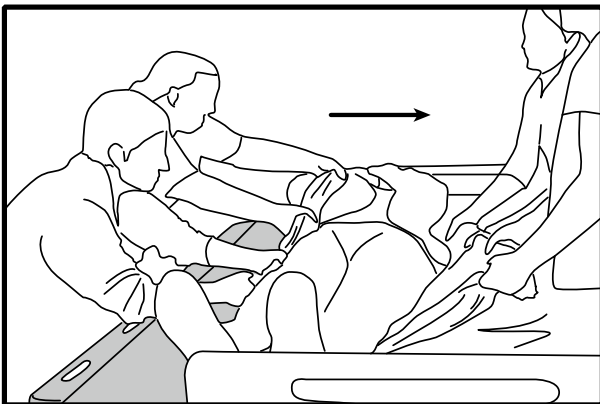
1. Prepare slide sheet with handles and put under subject.



2. Help subject lie upon measurement platform. Conduct measurement (see Chapter V - Using Device).



3. After weight measurement, transfer subject and remove slide sheet.

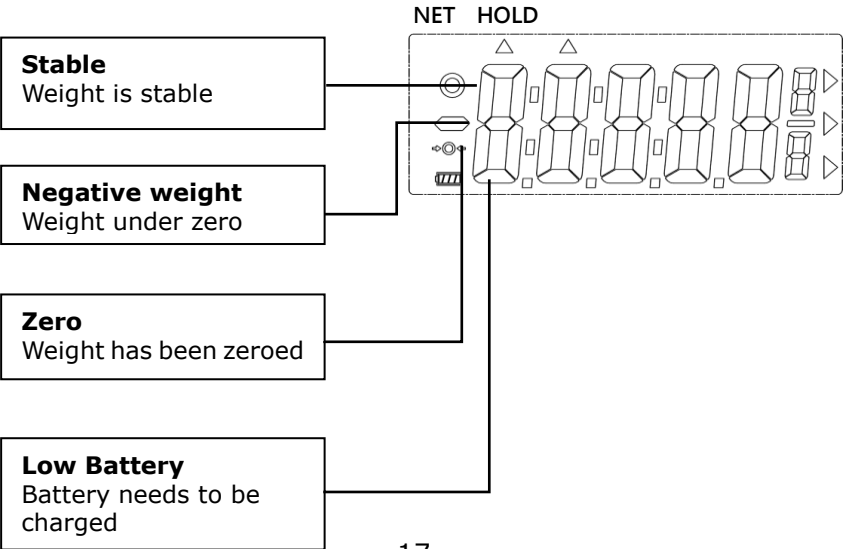


IV. Indicator

A. Key Functions

Key	Description
	Power on or power off. When device is on, press and hold for 3 seconds to turn off.
	Reset the display to 0.0kg / Zero the scale (within $\pm 2\%$ of full capacity)
	Determine stable weighing value - used when weight is unstable. (OIML model)
	Determine stable weighing value - used when weight is unstable. Press and hold for 3 seconds to switch the weighing units of the scale from kg to lb (Non-OIML model)

B. Display layout



V. Using Device

A. Basic Operation

Switch on the device using  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 **[ZERO]** key to zero the device. This function can be used for weight within $\pm 2\%$ of full capacity.

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

Note: If subject's weight exceeds scale capacity (250 kg), indicator will display "Err" prompt due to overload.

Press and hold  key for 3 seconds to power off.

B. 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. Hold cannot be used under 10 kg.

1. Switch on the device normally. Wait for "0.00 kg" to display on screen.
2. Guide subject to lie upon measurement platform.
3. Press the **[HOLD]** key. "HOLD" will be displayed on the indicator.
4. After a few seconds, the average weight will be displayed on the indicator. This weight will be locked - at this point, subject can leave measurement platform.
5. To release the locked weight, press the **[HOLD]** key again to return to the device to normal mode.

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

VI. Device Setup

When device is switched on, press and hold  key until  appears on display. Press **[HOLD]** 3 times to enter setup.

In device setup:



(ZERO): confirm



(HOLD): toggle



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

Auto off options: 30 min / 60 min / off

Press **[HOLD]** to toggle between time options, and **[ZERO]** to confirm selection.



Buzzer/Beep:

When function is turned on, beeping noise will be made when buttons are pressed..

Press **[HOLD]** to toggle between on/off, and **[ZERO]** key to confirm selection.



Backlight On/Off: When function is turned on, indicator screen

will be backlit.

Press **[HOLD]** to toggle between on/auto. When "on" is selected, the backlight will always be on. When "Auto" is selected, backlight will be activated when there is a change in weight, or buttons are pressed.

Press **[ZERO]** key to confirm selection.

To confirm all setting changes, press **[HOLD]** key when  appears on display.

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

- External objects interfering with measurement platform.
Clear platform of objects and try again
- Device may not function properly on soft surfaces. Relocate device to location with solid, stable platform
- 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

VIII. Error Messages

Error Message	Reason	Action
	Tilt Error Device is tilted by 3 degrees or more	Ensure device is as level as possible before use
	Low battery warning Voltage of battery is too low to operate device	Plug in charger or replace battery
	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

IX. Product Specifications

Model		MS7800	
Weight Measurement	Capacity	250kg x 0.5kg / 550lb x 1lb	250kg x 0.5kg
	Accuracy	±1.5e	±1.5e
	Unit	kg / lb	kg
	LCD Screen	27.7 x 75.0 mm	
Dimensions	Overall	1805(W) x 700(D) x 30(H) mm	
Device Weight		11.4 kg	
Key Functions		On/Off/Zero Unit/Hold	On/Off/Zero/ Hold
Data Transmission		N/A	
Power Supply		Rechargeable battery pack	
Operation Environment		+5°C~+35°C 15% / 85% RH 700 hPa ~1060 hPa	
Standard Accessories		User manual x 1 Charging cable x 1	

Notes

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Notes

[illegible]

Notes

This image shows a single page from a notebook or ledger. It features approximately 20 evenly spaced, thin grey horizontal lines across its entire width. The background is white, and there are no margins, text, or other markings present.

X. Declaration of Conformity

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



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)

Manufactured by:



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