

Operating manual



MHS 2510I

Scale

Version 0.0/English

Subject to technical modifications

05.04.2018

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1. Imprint

1.1 Acknowledgement

Dear valued customer, we would like to express our sincere thanks for purchasing this BEKA Hospitec GmbH product. Our products are manufactured and tested according to stringent quality criteria.

1.2 Manufacturer's address

EC Representative:



Wellkang Ltd
Suite B, 29 Harley Street
LONDON, W1G 9QR, U.K.

Manufacturer:

Charder Electronic Co., Ltd.
No.103, Guozhong Rd., Dali Dist.,
Taichung City, 412 Taiwan (R.O.C.)

1.3 Dealer



BEKA Hospitec GmbH
Am Rübenmorgen 3
35582 Wetzlar
Phone: +49(0)641-9 22 22-0
Fax: +49(0)641-9 22-22-20
info@beka-hospitec.de

Handicare Canada: 1-877-304-5438
Handicare USA: 1-866-891-6502

1.4 TÜV quality seal



BEKA Hospitec GmbH is certified according to DIN EN ISO 9001 and DIN EN ISO 13485 by TÜV SÜD Product Service GmbH. Therefore, the development, manufacturing, quality assurance and service of our entire product range is subject to high quality standards.

2. Introduction

2.1 Preface

Is it important that you follow the operating instructions closely to ensure the product functions correctly. Please read the operating manual carefully, paying close attention to the safety instructions provided.

The maintenance, inspection, assembly and installation as well as any technical support on the product must be provided by BEKA Hospitec or by specialised companies authorised by BEKA Hospitec. The operation of the product as well as technical support must only be carried out by specially trained personnel.

2.2 Liability and warranty

On the basis of the information contained in this manual, the publisher accepts no liability for damages resulting from improper, incorrect or inappropriate use of the product. The product must only be operated by persons, who are familiar with the manual and the product as well as the national regulations, laws and prescriptions related to work, safety and accident prevention.

The manufacturer of the product is only responsible for the safety and the reliability of the product, if regular functional tests and checks are conducted. Operate the product only with approved accessories, otherwise the manufacturer's liability will expire.

In case of technical interventions, such as extensions and fittings to our products, which are not carried out by BEKA Hospitec either by a specialist company authorised by BEKA Hospitec, all warranty rights on the modifications as well as on the device or on the device function, which are related to the modification, shall expire.

For damages resulting from the use of spare parts and accessories, which are not authorized by the manufacturer, any further liability of the manufacturer shall be excluded.

Please note that there might be minor differences between the images and explanations contained in this manual and the actual supplied device. Subject to technical modifications and error.

The product is equipped with "B"-Type applied parts. All exposed, touchable, conductive parts are thereby considered as applied part.


3. The operating manual

3.1 Validity

This operating manual contains information required for the safe operation and use of the product. In addition to descriptions of the equipment, the operating manual also includes a number of illustrations. The equipment of the product may differ in part from the descriptions and illustrations. Please follow the manuals when cleaning and disinfecting as well as assembling and disassembling individual components.

Please read the operating manual and the safety instructions before starting use. Keep the operating manual near the device for future reference.

3.2 Type plate

	<p>This image shows the type plate. The type plate is located at the rear side of the scale. The shown serial number (SN) 0126 is just an example. In case of queries, please mention the serial number printed on the type plate of your device.</p> <p><i>Note: Because of legal regulations, it may be required that the article number and the serial number be computer-readable as well printed on the type plate in the form of a bar code.</i></p>
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3.3 Description

In this manual, the product will be called “scale”.

4. Safety

4.1 Intended and appropriate use

The product is intended for weighing patients. The product is designed for short-term use and must not come into contact with injured or damaged skin.

4.2 Safety instructions

Please read the following safety instructions prior to using the product. All notes, specifications and warnings mentioned on the device as well as in the operating manual must be followed precisely to avoid any harm. BEKA Hospitec shall not accept any liability for any damages, failures or faults caused by improper operation or handling.

- The scale meets the requirements of 90/384/EEC and 73/23/EEC and is interference-suppressed according to the applicable EC-Directive 89/336/EEC.
- The safety technology of the device may be changed. Each alteration shall exclude the liability from BEKA Hospitec for the resulting damages.
- Any repairs, soldering operations to the circuit board and the exchange of parts is prohibited. Repairs may only be carried out by persons authorized by BEKA Hospitec.
- Waste equipment that is no longer functional or suitable for use must be disposed of separately from normal household wastes, in accordance with the national and local regulations on environmental protection and raw material recycling.

4.3 List of used safety instructions



Please observe the accompanying documents/operating manual.



Warning Hazardous Area.



Applied part "Type B" to DIN EN 60601-1.



Special waste, no household waste.
The device and the packaging materials must be disposed of in the domestic waste stream.



CE-label in accordance with the EC-Directive on Medical Devices.



Manufacturer

5. Installation

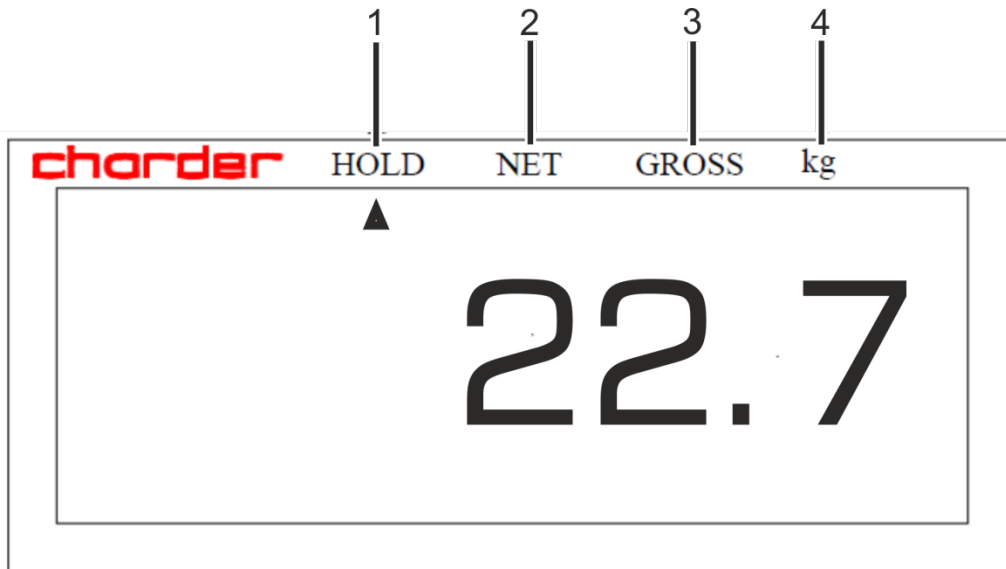
The scale is supplied ready for use. Connection to lift is required if installed after original purchase.

5.1 Battery

For the operation of the scale, 6 AAA-batteries are required.

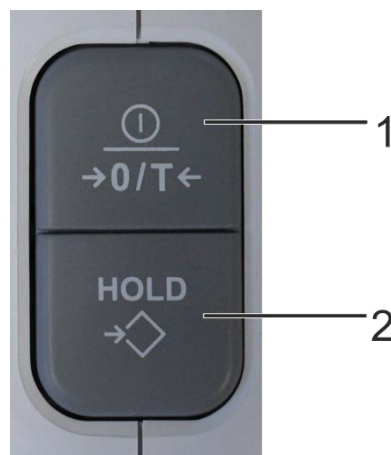
6. Operating elements and their function

6.1 Display



N°	Description	N°	Description
1	HOLD display	3	Gross weight
2	Net weight	4	Display in kg

6.2 Keypad



N°	Description	N°	Description
1	ON/OFF/ZERO/TARE button	2	HOLD/Settings button

6.2.1 ON/OFF/ZERO/TARE button

With this button, you can perform the following actions:

- Press the button to **switch the scale on**.
- Press the button for 3 seconds to **switch the scale off**.
- Press the button to return to **“ZERO”**.
- Press the button to **tare** the weight

6.2.2 HOLD/Settings button

With this button, you can perform the following actions:

- Press the button to **set up** the scale.
- Press the button to **capture/hold the result** of the weighing process.
- Press the button again to **release** the **locking function**.

6.3 Set-up Options

6.3.1 Set automatic shutdown

Follow the instructions to set the time for automatic shutdown:

- Switch the scale on with the ON/OFF/ZERO/TARE button
- Wait a few seconds, until the scale displays 0.0 kg (0 lbs)
- Press the HOLD/Settings button until you are in SET mode
- Wait a few seconds until the message A_OFF is displayed on the screen
- Press the ON/OFF/ZERO/TARE button to activate the mode. *The menu, in which you can set seconds for the automatic shutdown, is now displayed on the screen.*
- Press the HOLD/Settings button to switch between the different times 120/180/240/300/OFF.
- Press the ON/OFF/ZERO/TARE button to confirm your choice. *The message A_OFF is now displayed on the screen.*
- Press the HOLD/Settings button until the message END is displayed on the screen
- Press the ON/OFF/ZERO/TARE button to terminate the setting procedure.

After a few seconds, you will be redirected to the weighing process

6.3.2 Set the acoustic signal (beep)

Follow the instructions to switch the acoustic signal on/off:

- Switch the scale on with the ON/OFF/ZERO/TARE button
- Wait a few seconds, until the scale displays 0.0 kg (0 lbs)
- Press the HOLD/Settings button until you are in SET mode
- Wait a few seconds until the message A_OFF is displayed on the screen
- Press the HOLD/Settings button until the message BEEP is displayed on the screen
- Press the ON/OFF/ZERO/TARE button to activate the mode. The menu, in which you can switch the acoustic signal on or off (ON/OFF) is now displayed on the screen
- Press the HOLD/Settings button to switch between ON and OFF
- Press the ON/OFF/ZERO/TARE button to confirm your choice. *The message BEEP is displayed on the screen.*
- Press the HOLD/Settings button until the message END is displayed on the screen
- Press the ON/OFF/ZERO/TARE button to terminate the setting procedure.


After a few seconds, you will be redirected to the weighing process

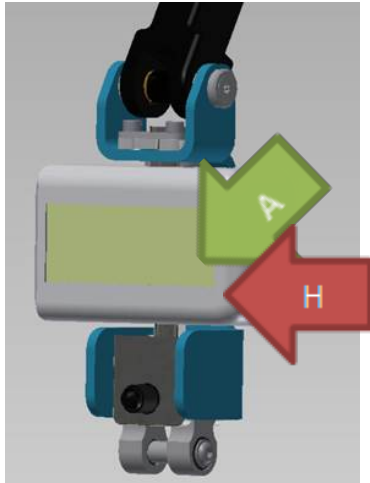
6.3.3 Set weigh scale reading

Follow the instructions to change weigh scale reading from kg to lbs:


- Select kg (#4) and change to lbs.

7. Operation

<p>CAUTION</p> 	<p>During the weighing process, the aluminium block (A) must not touch the wall of the support (H) (see image below).</p>
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7.1 Weighing a patient

<p>CAUTION</p> 	<p>During weighing, the patient must keep still. Any movement of the scale could produce inaccurate results. Make sure that the scale is at standstill in horizontal position.</p>
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Proceed in the following way to weigh a patient (without tarring):

- Switch the scale on with the ON/OFF/ZERO/TARE button
- Wait a few seconds, until the scale displays 0.0 kg (0 lbs)
- Suspend the sling with the patient to the scale
- Weigh the patient
- Switch the scale off with the ON/OFF/ZERO/TARE button

Please ensure that the sling and the clothes of the patient/resident is subtracted from the displayed weight to determine the actual body weight.

Proceed in the following way to weigh a patient (with tarring):


- Switch the scale on with the ON/OFF/ZERO/TARE button
- Wait a few seconds, until the scale displays 0.0 kg (0 lbs)

- Suspend the sling (the weight to be tarred) without the patient to the scale
- Weight the sling
- Press the ON/OFF/ZERO/TARE button
- Wait until the scale is automatically set to 0.0 kg (0 lbs)
- Place the patient in the sling
- Weigh the patient
- Switch the scale off with the ON/OFF/ZERO/TARE button

8. Cleaning/Disinfection

8.1 Cleaning the scale

Wipe the scale clean with a damp cloth. Use a normal cleaner in the event of heavier soiling. Never use abrasive or corrosive cleaners.

<p>NOTE</p> 	<p>Make sure that the system is not in operation during cleaning.</p>
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9. Waste disposal

9.1 Disposal of the packaging material

Please recycle the packaging materials of the product in accordance with the locally applicable regulations and laws.

9.2 Disposal of the product




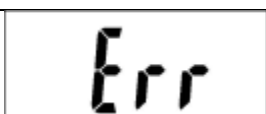
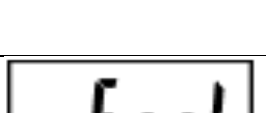
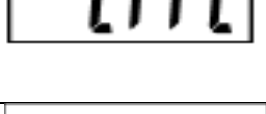
At the end of the product's lifetime, contact your BEKA dealer, who will recycle the scale in accordance with the locally applicable regulations and laws.

For an environmentally-sound disposal, BEKA Hospitec GmbH can provide more information.

Please clean and disinfect the scale prior to its disposal as well.


10. Troubleshooting/After-sales service

10.1 Possible error message on the screen

Error message	Meaning
	Battery low Your batteries are almost depleted. Replace the batteries as soon as possible.
	Maximum load exceeded You have exceeded the maximum load. Reduce the weight.
	Minimum load not reached The minimum load is not reached. Increase the weight.
	Maximum load exceeded/Counting error The maximum load is exceeded. Reduce the weight. If the error still persists, please contact the after-sales service.
	Minimum load not reached/Counting error The minimum load is not reached. Increase the weight. If the error still persists, please contact the after-sales service.
	EEPROM error The scale's programme is incorrect. Please contact the after-sales service.

When your scale does not function properly and you cannot resolve the errors by using Troubleshooting . Please contact the after-sales service of your dealer (chapter 1.3).

Dealer:

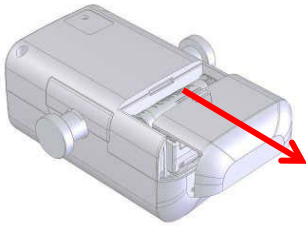
	<p>BEKA Hospitec GmbH Am Rübenmorgen 3 35582 Wetzlar Phone: +49(0)641-9 22 22-0 Fax: +49(0)641-9 22-22-20 info@beka-hospitec.de</p> <p>Handicare Canada: 1-877-304-5438 Handicare USA: 1-866-891-6502</p>
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11. Assembly/Disassembly

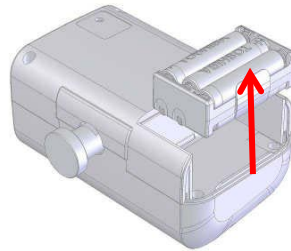
11.1 Replacing the Batteries

To operate the scale, 6 AAA-batteries are required.

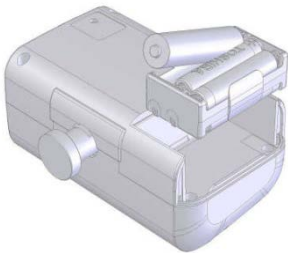
To replace the batteries:



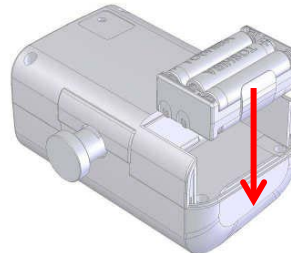
1. Remove the cover of the battery compartment



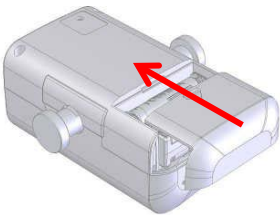
2. Remove the battery enclosure



3. Replace the old/used batteries with 6 new ones.



4. Put the enclosure back



5. Re-install the cover on the battery compartment

12. Appendix

12.1 Technical data

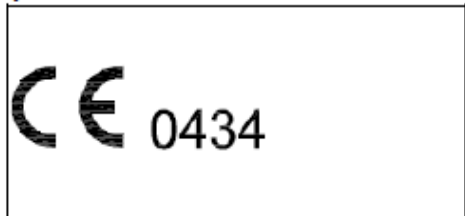

Dimensions and weights

Max. weight	300 kg (661.4 lbs)
Indication in steps of	0.1 kg (0.22 lbs)
Tolerance	± 0.15 kg (0.33 lbs)
OIML class	III
Display	2.54cm (1.0") 5 and 1/2 digits
Weighing unit	kg
Operating temperature and atmospheric humidity	+0 °C (+32 °F) ~ +40 °C (+104 °F) 15% - 85% RH
Transport and storage temperature and atmospheric humidity	-20 °C (-4 °F) + 60 °C (+140 °F) 10% - 95% RH
Dimensions	12 x 7 x 16 cm (4.72" x 2.76" x 6.3")
Batteries	1.5 V AAA * 6 batteries

12.2 Declaration of Conformity

Manufacturer's 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:



Wellkang Ltd
Suite B, 29 Harley Street
LONDON, W1G 9QR, U.K.

Manufactured by:



Charder Electronic Co., Ltd.
No.103, Guozhong Rd., Dali Dist.,
Taichung City, 412 Taiwan (R.O.C.)

IN-1191 [11159K] 08/2016

charder®

EU Declaration of Conformity

The Non-Automatic Weighing Instrument

III

Manufacturer	Charder Electronic Co., Ltd
Model	MHS-2510I
EC Type Approval Certificate No.	T8882

The Metrological Aspects of Non-Automatic Weighing Instruments

EN45501:2015 (module D)	Notified Body Number – 0126
EN45501:1992 (module B)	Notified Body Number – 0122

The non-automatic weighing instrument corresponds to the production model described in the EC Type Approval Certificate and requirements of the following EC Directives:


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

The applicable harmonized standards are:

EN45501:2015	The Metrological Aspects of Non-Automatic Weighing Machines
EN ISO14971:2012	Medical devices - Application of risk management to medical devices
EN ISO10993-1:2009	Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process
EN60601-1:2006	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
EN60601-1-2:2007	Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility - Requirements and tests
EN60601-1-6:2010	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability
EN62304:2006	Medical device software - Software life-cycle processes
EN980:2008	Symbols for use in the labelling of medical devices

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Date: August 25, 2017

Signature: 

Name: Angela Lu
Position: Measuring Management Rep.
Place: Taichung, Taiwan

Manufacturer: Charder Electronic Co., Ltd.

Address: NO.103, Guozhong Rd., Dali Dist., Taichung City 412, Taiwan (R.O.C.)

T-152D

Your notes

Dotted lines for taking notes.

