seca HW941

Digital Hoist Weigher

user instructions

Revised July 2003

GENERAL INFORMATION

The seca HW941 is designed to be an add-on weighing scale for use with patient hoists fitted with coat hanger sling supports. Extension links are provided as the dimensions of some coat hanger slings can vary. **If these extensions are used please ensure they are securely fastened.**

The scale should never be used on patients over the maximum weighing capacity of 200kg, or the maximum safe load of the hoist (whichever is lower) as injury could result; the scale should be withdrawn from use if any defects are found on the sling hooks. The load cell mechanism used has an overall strength of 250 kg and therefore provides considerable overload protection.

ELECTRICAL

The scale is supplied with Internal Re-chargeable batteries that, under normal operating conditions, will last at least 3 years before performance starts to degrade.

A power down sensor is built into the scale in order to conserve battery life. It will turn the scale off automatically when it senses that the weighing function as not been used for a period of 5 minutes.

A fully charged battery should give approximately 40 hours continuous use, the scale should be fully charged before its first use.

CHARGING THE SCALE

The scale is supplied with a mains adapter unit and can be run directly from the mains supply while the batteries are being charged.

USE ONLY THE ADAPTER SUPPLIED. DO NOT CHARGE IN WET OR DAMP AREAS.

The yellow power light located on the front panel of the indicator illuminates only when the scale is plugged into the mains adapter and indicates that the scale is being charged. This light will stay on even when the unit is fully charged to remind you that the unit is still connected to the mains.

To fully charge the batteries from flat the scale should be left on charge for a full 8 hours. Avoid extremes of heat during charging (for example in a boiler room or next to a radiator) as this could cause damage to the batteries.

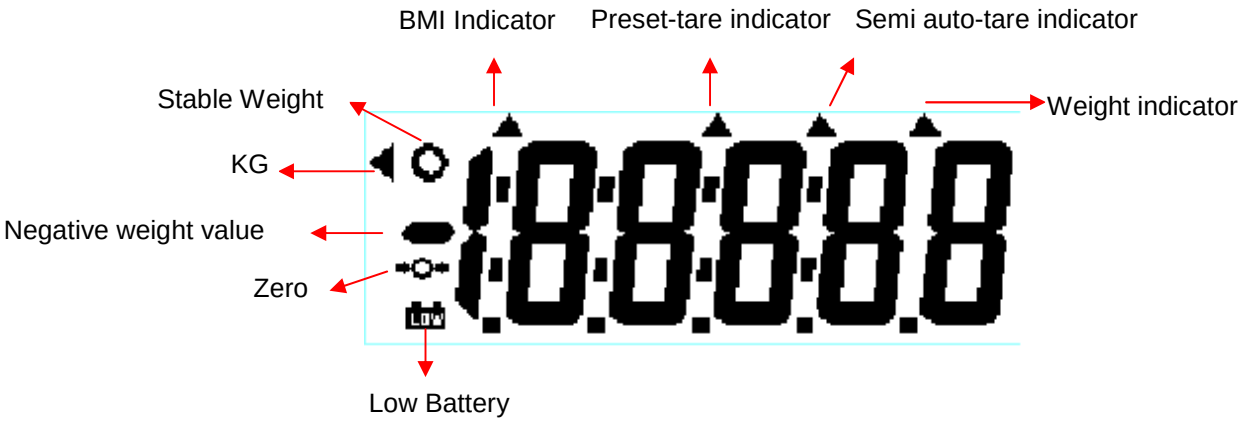
The low battery warning lamp is located in the bottom left corner of the display. This activates when approximately 20 minutes of battery life remains.

WEIGHING OPERATION

Always be sure that the display shows zero before use, if it does not then please press the ZERO key.

The scale is designed to detect when a stable weight is achieved; the indicator will bleep twice to indicate a stable weight value. Look for the stable weight indicator on the display next to the kg mark. Your reading should be taken at this point.

LCD DISPLAY INDICATORS



FRONT PANEL

ON	Press and hold the ON key for three seconds to activate the scale
OFF	Press the OFF key to power down the scale
ZERO	In the event that the display shows a figure of other than zero at switch on press the ZERO key to balance the scale
B.M.I	**Body Mass Index** You will first need to know the height of the person being weighed 1. Weigh as normal until the weight is stable 2. Press the BMI key - the scale can now be vacated 3. The display will now show a height figure. Use the ↑ and ↓ keys to adjust this to display the correct height in centimetres. Press the BMI button to move the changing figure to the right. When this is set press the UNIT key. 4. The BMI will be shown in the display. To clear press the BMI key again – the scale will return to normal weighing mode
UNIT KEY	Use the UNIT key to set the height when using the BMI feature. All other functions of this key have been disabled in this model
SLOW KEY	Operation of this key provides extra damping of the scale should the patient be over active or shaking

CLEANING

Always disconnect the scales from the mains power supply before cleaning. We recommend alcohol based wipes or similar are used when cleaning the scales. Do not use large amounts of water when cleaning the scales as this will cause damage to the electronics. Corrosive liquids or high pressure washers should not be used.

MAINTENANCE

Repairs and Servicing should only be carried out by authorised service agents. There are no user serviceable parts in the weighing scale. The weight indicator contains an internal rechargeable battery pack; this should only be replaced by authorised service agents.

The mains power adapter contains 2 fuses, 1 internal that is not accessible and 1 external user replaceable fuse. The fuse value is T400mA and no other fuse value should be used. When the adapter is plugged in to the mains supply a Green LED should illuminate to indicate that the adapter is functioning correctly. If the LED does not illuminate competent personnel should check the external fuse. There are no other user serviceable parts inside the mains adapter.

ENVIRONMENTAL

All batteries contain toxic compounds; disposal of batteries should be delegated to a competent organisation, complying with the deposit of Poisonous Waste Regulation 1972. Please do not incinerate batteries.

The optimum operating temperature for the scale is 0 to +40C, although it will operate at higher and lower temperatures, battery life will be adversely effected. Under no circumstances should the scale be stored or used in temperatures in excess of +60C.

GENERAL SPECIFICATIONS

Max Weighing Capacity	200kg x 0.1kg
Weight Display	1.0 inch LCD display with 5 ½ Digits
Max Display Resolution	1/3000
Internal Resolution	1/230000
Net Unit Weight	5kg

Mains Adapter Unit Specifications

Input	240Vac @ 50Hz 30mA
Output	12Vdc @ 300mA (Unregulated)
Fuses	Internal-T50mA
External	T400mA

The mains adapter unit is designed and built to IEC Class II Type for use with medical weighing equipment.

This product is made to comply with the requirements of:

EMC (89/336/EEC)
Low Voltage Directive (73/23/EEC)
The Non Automatic Weighing Equipment Directive (90/384/EEC) Class III0
Harmonised Standards to which conformity is declared
EN60601-1
EN60950
EN55022
EN50082-1