

ADE

Operating Manual
Electronic Bedscale, class III approved M60011



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Components and Features



Keys

Function

- ON To start the scale
- OFF..... To shut the scale off
- ZERO..... To set the scale to zero
- PRESET TARE..... To manually set a value to be tared
- HOLD..... To fix the weighing result
- BMI To evaluate the BMI (Body-Mass-Index)
- SEMI AUTO TARE To tare a fixed value
- UNITS..... To change the weighing unit (kg, lb)
- CLEAR..... Clear indication
- ENTER..... Confirm indication
- 0 – 9..... Numeric keys for storing tare value or height for evaluation of BMI

Display symbols

Arrows indicating which weighing mode or evaluation mode you have chosen

Installation and use of scale

Your ADE Electronic Bed scale is a class III approved quality product suitable for medical use in hospitals, especially in intensive care, dialysis centres or special clinics e.g. for burnt patients.

The scale is used for evaluation and monitoring of the weight of patients who can only be weighed in bed or in case of emergencies lying on a litter.

The scale is a precision instrument for medical use.

The weighing result is used as an essential basis for medical application decided by doctors or medical personnel in hospitals, nursing homes, rehabilitation- and dialysis centres.

To achieve the best possible results kindly read and follow this Operating Manual with utmost attention.

Check carton contents

- 2 Weighing platforms each equipped with a ramp
- Connecting cable between weighing platforms (fits either way)
- Indicator incl. connecting cable
- Mains adapter
- Operating Manual including Certificate of Conformity

Mounting and Installation

- Dismantle packaging and upholstering foil carefully.
- Weighing platforms are equipped with castors for easy transport.
- By the handle you find on each weighing platform you pick it up and wheel them both to the desired operating area. Place them each in front of the wheels of the bed.
- Connect both platforms to each other by using the connecting cable and the jack connectors.
- Connect the indicator by its connecting cable to the jack connector on one of the weighing platforms.
- Connect the attached mains adapter to the indicator. You will find the plug connection on the right hand side of the indicator.
- Afterwards connect the mains adapter to the power supply.
- Start the scale by pressing the ON key.
- An automatic function test will lead to zero indication (00.0).
- Move the bed via the ramps on the weighing platforms.
- The construction of the weighing platforms do not allow to roll over but makes sure the wheels of the bed are safely stuck.
- The indicator is now giving the weight of the bed.
- To evaluate the weight of the patient please follow the instructions on page 6 chapter **Use of the scale** section **to take patient's weight**.

Unit function

By using the **Units** key you may select the weighing mode (kg,lbs,st).

Use of the scale where approved scales are imperative

The scale corresponds to standards and requirements of the European Directives 90 90/384/EEC and 93/42 EEC.

Connecting additional equipment

Conditions for connecting additional equipment are fulfilled via RS 232.

Metrologic requirements for additional equipment like printer and PC have to be metrologically marked by **M** on green background.

Quality check

ADE products correspond to the applicable EC Directives and European standards to manufacture and distribute world-wide weighing and measuring equipment as per the latest technical standard offering a long lifetime and continuous reliability.



This symbol stands for fulfillment of the European Directive 93/42 EEC for medical devices and declares the conformity as per this Directive.



Due to the certification as per ISO 9001/2000 the high standards for Research & Development, Manufacturing, Sales and Service requirements are fulfilled. A copy of our ISO Certificate is available on request.



Approved scales class III respecting the standards of the Directive 90/384 EEC for non automatic scales are carrying this symbol.



Scales carrying this symbol in combination with class III sign are calibrated in accordance with the high precision standards laid down in EC Directive 90/384 EEC.



Products carrying this symbol meet the requirements of:

- Directive for non automatic scales for medical use 90/384 EEC
- Applicable EC Directive governing the electromagnetic compatibility (89/336 EEC).
- Directive 73/23 EEC for low voltage regulations

EC type approval

The scale has been EC type approved under Nr. **NMI T6309 revision 0**

Use of the scale

Operating

The universal efficiency of the indicator ensures consequent and logical operating. Just key in the selected function. Storage of values is done by always the same keys.

To take patient's weight

After the bed has been installed properly on the weighing platforms (see chapter **Installation and use of the scale** on page 4) the indicator displays the weight of the bed.

- Simply by pressing the **Semi Auto Tare** key you are setting the scale back to zero.
- Place the patient on the bed.
- The indicator is displaying the weight of the patient.

Monitoring the patient's weight

The first evaluation of the patient's weight has been done as described above. In many cases however, it is imperative to temporarily monitor the deviations of the weight caused by necessary treatments or by the critical situation of the patient (e.g. gain or loss of liquid during dialysis or when burnt to 3rd degree). At the same time the total weight is changing due to adding or taking away object (e.g. cushion, book etc.).

Two examples perfectly demonstrate the flexibility and easy operation of the scale.

Function	Display	Action	Display
Installation of scale and start by pressing key ON	0.0 kg	none	0,0 kg
Installation of bed and taring bed's weight	150.00 kg	Semi Auto Tare	0.0 kg
Place patient in bed and tare	95.0 kg	Preset Tare 95.0 Enter	0,0 kg
Weight difference by gaining weight (+1.5 kg)	1.5 kg	none	1.5 kg
Added weight by cushion or similar (5 kg). Keep the previously displayed value in mind. Do not yet add cushion.	1.5 kg	Preset Tare Add cushion	101.5 kg
Key in the new weight of patient (weight displayed minus reminded weight [mind plus/minus sign])	101.5 kg	Preset Tare 100.0 Enter	1.5 kg

Function	Display	Action	Displaye
Installation of scale and start by pressing key ON	0.0 kg	none	0.0 kg
Installation of bed and taring bed's weight	150.0 kg	Semi Aoto Tare	0.0 kg
Place patient in bed and tare	95.0 kg	Preset Tare 95.0 Enter	0.0 kg
Weight difference by loosing weight (-1.5 kg)	-1.5 kg	none	-1.5 kg
Added weight by cushion or similar (5 kg) Keep the previously displayed value in mind. Do not yet add cushion.	-1.5 kg	Preset Tare Add cushion	98.5 kg
Key in the new weight of patient (weight displayed minus reminded weight [mind plus/minus sign])	98,50 kg	Preset Tare 100,00 Enter	-1.5 kg

Acoustic Signal

- Adding weight slowly (e.g. infusion) there is an acoustic signal (beep) as soon as the next division step (100 g) is reached.

Hold function

Press the **Hold** key in case of unstable readout which might occur if for example the patient is not able to stay quiet. The scale will hold the result displayed. After scale has been unloaded, the result value is still readable and can be noted.

Body Mass Index (BMI)

The Body Mass Index is the ration between height and weight squared. The BMI is meanwhile accepted world-wide – also by WHO (World Health Organization) – helping to evaluate the state of nutrition as well as the state of health of a person. The result is a tolerance value.

As the exact body length is one essential value we recommend to measure the patient by using together with your ADE scale the height measuring rod model MZ 10019.

Start the scale as already described and take the weight. Then press the **BMI** key and use the numeric key to indicate the height of the patient in cm. Confirm by using the **ENTER** key. The BMI is calculated and displayed.

Evaluation of the Body Mass Index

BMI below 18

- The patient is not showing enough weight. Control nutrition to put on weight.

BMI between 18 and 20

- The patient is slightly under weighed. If he feels well there is no need for a change..

BMI between 20 and 25

- The patient is in the range of normal weight.

BMI between 25 and 30

- The patient is slightly overweighted. A reduction of weight is indicated or, is necessary if the state of health is already affected (e.g. diabetes, high end blood pressure, heart diseases).

BMI over 30

- Reduction of weight is imperative. Also to visit a doctor is highly recommended.

Cleaning, Maintenance and Re-approval

Cleaning

Before cleaning make sure the scale has been disconnected from the socket.

For cleaning just use a damp cloth or common disinfection products.

Do not use any aggressive cleaning fluids.

Make sure no water or cleaning fluid penetrates the scale.

Service

Display indication **Lo** Recharge the power-pack by connecting the mains adapter to the display.

Display indication **ErrL** Check correct positioning of the scale (see chapter installation & use of scale) and make sure the scale is completely unloaded.

Display indication **Err** Function test does not automatically lead to `0.00`. Try **zero** setting key. If display still indicates Err the scale needs calibration. Please contact your local dealer or service partner.

Display indication **ErrP** Severe failure of weighing system. Please contact your local dealer or service partner.

Safety instructions

Do NOT use the scale

- If the mains adapter shows visible damages
- If mains adapter is not working properly
- After long storage in humid places

In those cases contact your local dealer or service partner.

Storage and Transport

Keep all original parts and pieces for an eventual sending back of the scale in order to avoid any possible damage during transport which automatically leads to no warranty.

Disconnect all cables before transport to avoid unnecessary damages.

Warranty – Liability

ADE will repair or replace this product within a period of 2 years from date of delivery applying to defects occurred due to poor material or workmanship (presentation of invoice is necessary). All moveable parts – batteries, cables, mains units, rechargeable batteries etc. – are excluded. Warranty does not include natural wear, damages caused by incorrect or negligent handling, overuse or unsuitable or improper storage. The cost of transport will be borne by the customer should the equipment be located anywhere other than the customer's premises. In the event of transport damage, claims under warranty can be accepted subject to using the complete original packaging and the equipment secured the way it was packed and secured originally. All the packaging should therefore be retained.

Any warranty claim will be rejected if the equipment is opened by persons not authorized expressly by ADE to do so.

Customers abroad are kindly requested to contact their local dealer for any warranty claim, customer service and spare parts.

Re-approval

For re-approval of the scale as per the national directives governing the standards for non automatic scales as well as for medical devices please make sure to contact only authorized companies or persons. On the CE sign you are finding the number of the notified body (0110) and the year of the first approval of the scale. A re-approval becomes necessary

- IF the approval seal has been damaged
- AFTER repair of an approved scale
- OR after expiry of the validity of the first approval which is nationally regulated. For further information please contact your Weight & Measure Institute.

Technical Data

Display:	Easy to read 25 cm LCD
Housing material:	Plastic
Power supply:	Mains & rechargeable batteries
Function keys:	20 keys(see chapter components & features) page 3)
Interface:	RS 232 with automatic Baud rate selection
AD sampling rate:	Triple selection
Zero setting:	Automatic
Weighing station/Trolley:	
max. capacity:	500 kg / 1.100 lbs
max. patient weight:	300 kg / 660 lbs
Graduation:	100 g / 0,2 lb
2 weighing platforms with ramp	
Dimensions:	1000 x 350 x 450 mm
Arbeitstemperatur:	10 to +40 Grad Celsius
Weight:	abt.26 kg

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Certificate of Conformity

D

... entspricht dem in der Bescheinigung über die Bauartzulassung beschriebenen Baumuster. Die Waage erfüllt die geltenden Anforderungen folgender Richtlinien: 90/384/EWG über nichtselbsttätige Waagen, 93/42/EWG über Medizinprodukte und die Europäische Norm DIN EN 45501.

DK

... svarer til det typemonster, som er beskrevet i attesten over typegodkendelsen. Vægten opfylder de gældende krav fra følgende direktiver: 90/384/EOF om ikke-automatiske vægte, 93/42/EOF om medicinprodukter og den europæiske standard DIN EN 45501.

GB

... corresponds to the type described in the certificate in respect of type approval permit. The scales conform to the applicable requirements of the following directives: 90/384/EEC on non-automatic scales, 93/42/EEC on medical products and European standard DIN EN 45501.

F

... conforme au modèle type décrit dans le certificat d'homologation. Cette balance est conforme aux directives et normes suivantes : directive 90/384/CEE concernant l'harmonisation des Etats membres relative aux instruments de pesage à fonctionnement non automatique ; directive 93/42/CEE sur les produits et appareils médicaux ; norme européenne DIN EN 45501.

I

... è conforme al campione descritto nel certificato di omologazione costruttiva. La bilancia risponde alle vigenti esigenze poste dalle seguenti direttive: 90/384/CEE sulle bilancie non automatiche, 93/42/CEE sui prodotti medicali e la norma europea DIN EN 45501.

RUS/UA/BY

Сертификат качества ISO 9001

E

... corresponde a la muestra descrita en el certificado sobre el permiso de construcción. La báscula cumple las exigencias de las siguientes directrices : 90/384/CEE sobre básculas no automáticas 93/42/CEE sobre productos médicos y la norma europea DIN EN 45501.

S

... motsvarar beskrivningen enligt mönstertillståndet. Vågen uppfyller gällande krav i direktiven angående icke automatiska vågar: (90/384/EWG), 93/42/EWG över medicinska produkter samt den europeiska normen DIN EN 45501.

N

... er i samsvar med monstret som er beskrevet i sertifikatet over konstruksjonstype-godkjennelsen. Vekten oppfyller de gjeldende kravene i følgende direktiver: 90/384/EEC om ikke-automatiske vekter, 93/42/EEC om medisinske produkter og den europeiske standarden DIN EN 45501.

FIN

... on tyyppihyväsytätödistuksessa kuvatussa raken nemällin mukainen. Vaaka täyttää seuraavien direktiivien voimassa olevat vaatimukset: 90/384/ETY ei-automaattisista vaaista, 93/42/ETY lääketieteellisistä tuotteista ja Euro-normi DIN EN 45501.

NL

... komt overeen met de in de verklaring van over de modelkeuring beschreven constructie. De weegschaal voldoet aan de geldende eisen van de volgende richtlijnen: 90/364/EEG inzake niet-automatische weegschalen 93/42/EEG inzake medische hulpmiddelen en de Europese norm DIN EN 45501.

P

... corresponde ao padrão de construção descrito no certificado de homologação de tipo de construção. A balança satisfaz os requisitos aplicáveis da directiva sobre balanças não automáticas 90/384/CEE e 93/42/CEE sobre artigos médicos do Conselho, bem como da norma Europeia DIN EN 45501.

GR

... ανταποκρίνεται στο κατασκευαστικό πρότυπο που περιγράφεται στην εγκριτική βεβαίωση του κατασκευαστικού τρόπου. Η ζυγαρία εκπληρώνει τις προνοιόμενες των ακόλουθων Οδηγιών: 90/384/ΕΟΚ περί μη αυτοματών ζυγαριών, 93/42/ΕΟΚ περί ιατρικών προϊόντων, και την Ευρωπαϊκή Προδιαγραφή DIN EN 45501.




Konformitätserklärung
Overensstemmelsestest
Declaration of conformity
Certificat de conformité
Declaración de conformidad
Dichiarazione di conformità
Försäkran om överensstämmelse
Konformitetserklæring
vaatimuksenmukaisuusvakuutus
Verklaring van overeenkomst
Declaracao de conformidade
Δηλώση Συμβατότητας




Die nichtselbsttätige Personenwaage
The non-automatic personal scales
Le pèse-personnes non automatique
La bilancia pesapersona non automatica
La báscula no automática pesapersona
Den ikke-automatiske personvægt
Den ikke-automatiske personvekten
Ei-automaattinen henkilövaaka
De niet-automatische personenweegschaal
A balança não automática para pessoas
Η μη αυτοματη ζυγαρία ατομών

ADE M60011

EG-Bauartzulassung NMIT6309revision 0
EC type approval NMIT6309revision 0
Homologation CE NMIT6309revision 0
Omologazione del tipo costruttivo CEE NMIT6309revision 0
Homologación CE NMIT6309revision 0
EF-typegodkendelse NMIT6309revision 0
EG-kontroll NMIT6309revision 0
EF-konstruksjonstype-godkjennelse NMIT6309revision 0
EY-tyyppihyväsytä NMIT6309revision 0
EG-modelkeuring NMIT6309revision 0
Homologacao CE de tipo de construção NMIT6309revision 0
Άδεια κατασκευαστικού τρόπου Ε.Κ. NMIT6309revision 0


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