Medical Measuring Systems and Scales since 1840

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An innovation is something that proves its worth in day-to-day work.

Doctors, nurses and other health care professionals value technology that supports them in their day-to-day work and helps them save time. Our products help to shorten routine procedures and prevent errors. The intuitive control systems save training time, while the high level of reliability and quality guarantees precise measurements every time. Our effective, global seca service network also contributes to this. Mobile or stationary, little or plenty of space, for constant or only occasional use – we offer the right products for a wide range of conditions and requirements. However, the key factor is that every seca product forms part of a system solution. This is the only way to ensure that devices can be fully integrated, processes networked and the number of work steps reduced.

Our products are sold exclusively through specialist retailers. This guarantees the level of reliability and service that you expect from us.

Every question helps us improve.

For more information on products and services, please call:

0121 643 9349

Of course, you can also find answers to your questions online at:

www.seca.com
Best-fit products by medical area of application

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If you have any queries regarding our products or services, you can call us:

0121 643 9349
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seca innovations
Accurate patient consultation requires reliable data.

Exact body composition
The Medical Body Composition Analyzer (mBCA) from seca divides the weight into the important components for medical use: fat, muscle mass and water.

Health and nutritional status
Important indicators of severe diseases such as obesity, malnutrition and diabetes can now be detected, faster and more precisely than ever before.

Courses of therapy
The PC software can be used to document courses of therapy and give patients a clear printout for their records.

Comprehensive analysis
The six modules of the seca mBCA 515 offer countless diagnostic options and present the results using clear graphs.

Medically valid
The seca mBCA 515 is validated against the medical science gold standard – using clinical studies* developed at clinics in the USA and Germany. This enables doctors and medical staff to work at the cutting edge of science.

S

ize and weight alone are not enough for a more extensive analysis of a patient’s body composition. What about fat, muscle and water content? All of these are important indicators of serious diseases.

This is exactly why seca has developed a medical Body Composition Analyzer, which delivers all these values and has been validated against the medical science gold standard. Thus, it is now possible to precisely and medically determine values such as fat mass, extracellular and intracellular water, and skeletal muscle mass. Put simply, the seca mBCA is an innovative diagnostic instrument that will give your facility a unique advantage.

With five decisive advantages for medicine

1. Medically precise measurements.
2. Assessment of the general health and nutritional status of the patient.
3. Brief examination – less than 20 seconds.
4. Early indicators of various diseases.
5. Exact monitoring of courses of therapy.

*At press time, not all studies have been published. For current publication status: www.seca.com/studies
Simplified work, quick measurement and medically relevant results, that is the seca mBCA 515.

The seca mBCA 515 is a medical Body Composition Analyzer, which is ideally adapted to the working conditions in hospitals and medical practices. After all, in order to obtain a truly meaningful BIA measurement (bioelectrical impedance analysis), we need to look beyond the many technical requirements. For one thing, the device has to be quick and easy to use for both medical staff and patients. For another, the measurement results have to be reproducible under normal clinical working conditions. These exact considerations went into the development of the seca mBCA 515.

Technical data
- Capacity: 300 kg
- Division: 50 g
- Approval class: 1p
- Medical device class: IIa
- Dimensions (WxHxD): 976 x 1,251 x 828 mm
- Display type: 8.4" touch-screen display, can be rotated 360°
- Interfaces: seca 360° wireless, USB 2.0, Ethernet
- Measurement method: 8-point Bioelectrical Impedance Analysis
- Measurement current: 100 μA
- Measurement time, normal mode: max. 20 seconds

System compatible with:
- 360° wireless USB adapter seca 456
- seca analytics 115 software, seca 274 stadiometer or seca 264

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service
Six times more for every measurement.

With the six modules in the seca mBCA 515.

The six analytical modules of the new seca mBCA 515 offer the user innumerable diagnostic options.

With precise ratios such as fat mass to weight or extracellular to intracellular water, the doctor can now obtain indications of medical disorders which were previously difficult to diagnose without additional examinations. Another significant advantage comes with the graphic presentation of measurement results, which visualises the doctor’s findings for the patient.

---

**Energy**

- Fat mass (FM/%FM)
- Energy stores in body
- Resting energy expenditure (REE)
- Total energy expenditure (TEE)

**Fluid**

- Total body water (TBW)
- Extracellular water (ECW)
- Hydration (HYD) = Extracellular water (ECW)/intracellular water (ICW)
- Bioelectrical Impedance Vector Analysis (BIVA)

**Function/Rehabilitation**

- Fat-free mass (FFM)
- Fat mass (FM/%FM)
- Fat mass indices (FFMI/FMI)
- Skeletal muscle mass (SMM)

**Health risk**

- Phase angle (φ)
- Hydration (HYD) = Extracellular water (ECW)/intracellular water (ICW)
- Bioelectrical Impedance Vector Analysis (BIVA)
- Fat mass indices (FFMI/FMI)

**Development/Growth**

- Weight (W)
- Height (H)
- Body Mass Index (BMI)

**Raw impedance data**

- Impedance (Z)
- Phase angle (φ)
- Resistance (R)
- Reactance (Xc)

The fluid module determines total body water and its makeup in terms of extracellular and intracellular water. If the proportion of extracellular water is too high, that could indicate that the patient is retaining more water than is healthy. With the help of the Bioelectrical Impedance Vector Analysis (BIVA), the patient’s fluid status can be presented in easy-to-understand graphics.

The module Function/Rehabilitation determines the patient’s level of fitness, metabolic activity and any training progress. The Body Composition Chart (BCC) developed by seca depicts the measurement points of the fat mass indices over a coordinate system and helps to determine body composition.

A prognosis for the patient’s general health and nutritional status can be made with the Health risk module. The decisive factor is the phase angle, from which conclusions can be drawn about the condition of the body’s cells or the entire organism. This evaluation is shown in the BIVA. The module also determines fat mass index (FMI) and fat-free mass index (FFMI) and plots them in the BCC.

The module Development/Growth allows monitoring of changes in weight, as the patient’s weight, height and BMI are graphically presented for each measurement.

The Raw impedance data module reports the results of the Bioelectrical Impedance Analysis in raw data form so that they can be used for clinical studies. The data includes impedance, phase angle, resistance, and reactance for individual extremities and frequencies.
Examination results are only as valuable as the analysis performed.

The seca analytics 115 PC software.

More in-depth analysis
The seca analytics 115 PC software does more than simply uploading the examination results from the seca mBCA to your PC. It expands on them significantly, for instance with a module for cardio-metabolic risk or a therapy planner.

Digital patient files
Only EMR-integrated products such as seca analytics 115 can convert the data into the format required to process it in the Electronic Medical Record (EMR) systems.

Solid scientific foundation
The seca mBCA 515 and the seca analytics 115 PC software use only the latest scientific references for the analysis and interpretation of the measurements.

seca 360° wireless
The measurements from the seca mBCA 515 and other seca 360° wireless products can be received wirelessly by a PC running seca analytics 115.

With six decisive advantages for medicine

1. Sets up the PC so that it can wirelessly receive the measurements of the seca mBCA and other seca 360° wireless devices.
2. Also, offers the Cardiometabolic risk module, the extension to the Raw impedance data module, additional interpretation options, trend curves and the therapy planner.
3. Can generate and print out clear graphs for all data – either for patient records or to provide a clear structure for patient consultation.
4. Stores all patient and examination data in a central seca database.
5. Enables clinics to take the first step toward digital patient records with EMR integration.
6. With the necessary security, thanks to simple user account management and access rights.

The seven modules for the analysis of examination results can be compiled for each patient as needed and presented in an easy-to-read PDF document. This patient report is not only intended for patient records – it is also a valuable aid for clear patient consultation.

Trend curves document and monitor data such as the proportion of fat mass.

The additional module Cardiometabolic risk compares BMI and waist circumference to reference values, calculates the 10-year risk of coronary heart disease and checks whether a metabolic syndrome is present.

The therapy planner helps in the analysis of resting and total energy expenditure. It is becoming increasingly important, as more and more patients are suffering from malnutrition, overweight or obesity.

For seca analytics 115:
- Remote or on-site installation service
- Remote or on-site EMR integration support
- Remote or on-site software support
Imagine – data wirelessly transmitted and then printed or received by a PC and analysed by software that compares them to standard values. All measurements can be transmitted directly into the Electronic Medical Record system of a hospital or doctor’s practice and managed there. seca 360° wireless not only saves valuable time and prevents manual entry errors, but also provides doctors and staff with a whole new level of information about abnormal health and nutritional statuses among their patients.

With seven decisive advantages for medicine

1. Wireless communication instead of cable connections.
2. System components can be set up anywhere.
3. seca’s own secure wireless protocol for simple and fast recognition of devices in the seca 360° wireless network.
4. Paperless and error-free transmission of measurements.
5. seca analytics 115 PC software for diagnostic assistance based on highly qualified analysis and assessment of the health and nutritional status of the patient.
6. Graphic presentation of measurements and their comparison to standard values – PDF or hard copy print-out (DIN A4).
7. Software seca emr flash 101 for direct transmission of measurements to any EMR system.
Wireless data transmission

The wireless product system seca 360° wireless is the first of its kind in the world. Our products transmit their data as required via a special medical wireless protocol to a simple, fast and secure seca network. Within seconds, measurements are transmitted wirelessly and assigned to the correct patient ID in your EMR system, or transferred to a seca 360° wireless printer. This increased efficiency allows your facility to concentrate on what’s really important — the well-being of your patients.
The future belongs to networks – in medicine too.

If many experts join hands, they will work faster and more efficiently. That is the idea behind a network, and the same applies to the seca 360° wireless network with the seca analytics 115 PC software for diagnostic support or the seca emr flash 101 software for connecting seca 360° wireless products directly to the EMR system, see page 22). Here, the seca height measuring systems and scales are spread across several rooms, and can work wirelessly with any number of PCs. With seca analytics 115, the user can access the data of an EMR system via a central interface (seca EMR Connector), store height and weight measurements and export the other analysis data from seca analytics 115 as a PDF. This saves time not only in measuring procedures, but in the documentation as well.

No manual transfer required: simply send the measurements to the seca 360° wireless printer for immediate printing.

Higher quality consultation: the seca analytics 115 PC software compares the results with the standard values and presents them clearly.

No manual transfer required: simply send the measurements to the seca 360° wireless printer for immediate printing.

Store the patient data in the EMR and transfer them to the seca analytics 115 PC software.
Our seamless integration into any EMR system.

Many devices bear the label “EMR-ready”, but in practice that isn’t enough. Only “EMR-integrated” products like seca emr flash 101 and seca analytics 115 permit direct integration of data in an EMR system and bring the data to internationally recognised standards (e.g. HL7 or GDT), which the EMR system requires for processing purposes. The only prerequisite is the USB adapter seca 456 for the PC, so it can receive the measurements from seca 360° wireless products.

**EMR-integrated**
- Direct integration of data into any EMR system
- Standard international formats such as HL7 and GDT
- Includes an API for individual module development
- Time savings, for precise work without manual entry errors
- Leaves more time for what really matters: patient’s well-being

**seca emr flash 101 for direct EMR integration**
A direct connection to an Electronic Medical Record (EMR) system normally involves a lot of programming work. Not with seca! With the software seca emr flash 101, available as a free download from the Internet site www.seca.com, seca offers two options for direct integration into the EMR system:
1. An Application Programming Interface (API) that permits customised module development
2. Software modules have already been developed by seca for some EMR systems (e.g. Allscripts Professional) and standard protocols (e.g. HL7, GDT) in which about 80% of the programming steps have already been executed. For the integration in hospitals or doctors’ practices, all that is needed is some support from the EMR system provider or IT department.

**seca analytics 115 can do more than analyse and interpret data**
With the PC software seca analytics 115 doctors can work with the data from seca products on a PC and make significant improvements in the quality of the examination. They can also export the results to an EMR system and import patient data as well. In addition, it is possible to create an electronic report and store it digitally as a PDF in the patient files.
Paediatric scales and measuring systems

Exact measurements: as important to life as the air we breathe.

The exact measurement of height and weight is an important prerequisite for a healthy start to life. That is why seca offers everything that makes it easy for doctors and nurses to measure and weigh infants – from a mobile measuring mat to a head circumference tape, and baby scales with a damping function that ensures reliable measurements despite movements.
Baby scales

Babies who feel safe and secure are easier to weigh.

Baby scales by seca make weighing fast and comfortable. With skin-friendly materials that immediately take on and radiate body warmth. With designs that make the baby feel safe and advanced functions that shorten the weighing process, seca 360° wireless technology allows you to transmit weight measurements quickly and securely without cable connections to a PC or printer.

seca 757

Electronic baby scale with integrated RS232 interface

A special integrated damping system together with the HOLD function for quick, precise weighing even if the baby is restless. The ergonomically shaped tray with high rounded sides makes it easy to weigh larger babies. The large, bright LED figures make it easy and convenient to read the result. Power supply is by mains adapter or rechargeable batteries. An integrated RS232 interface guarantees the reliable transmission of data to a PC.

- Capacity: 15 kg
- Graduation: 5 g
- Functions: TARE, HOLD, automatic switch-off
- Optional: interface cable seca 451

seca 717

Electronic baby scale with fine graduation

Thanks to the especially fine two-gram graduation, this scale registers even the smallest change in weight. With the aid of the HOLD function, the result is displayed even after the baby has been taken off the scale – a baby can therefore first be attended to before its weight is noted. Power supply is by mains adapter.

- Capacity: 15 kg
- Graduation: 2 g < 6 kg > 5 g
- Functions: TARE, HOLD, automatic switch-off
- Optional: measuring rod seca 231, head and foot positioners seca 429

seca added value

Baby scales with integrated measuring rod for measuring and weighing in one step? There is such a thing – from seca of course. Supplemented by the measuring rod seca 231, the electronic baby scale seca 717 becomes a complete measuring and weighing system that can be operated easily with just one hand. The other hand remains free to keep the baby still in the weighing tray.

seca 231

Measuring rod for baby scale seca 717

This measuring rod converts the baby scales seca 717 into a complete weighing and measuring system. You can measure and weigh the baby on the scales and thus save time. It is easy to mount on the scales with the perfectly fitting connections.

- Measuring range: 35–80 cm
- Graduation: 1 mm

seca 435

Trolley for baby scale

Designed for use with all baby scales. A robust steel unit with wipe clean top, door protection rollers, two braked castors and paper roll holder.

Accessories

- Maximum precision makes this scale particularly suitable for neonatology.
- The skin friendly surface is pleasant to touch and easy to clean.
- The damping function delivers precise measurements even if the baby moves.
- Can be operated by rechargeable batteries or power adapter.

Accessories

- Baby scales with integrated measuring rod for measuring and weighing in one step?

Maximum precision makes this scale particularly suitable for neonatology.
Ergonomic, convenient and time-saving. These are the key words that define the seca 376. Its extra large tray lets you weigh a seated toddler of up to 20 kg, even if the child is fidgety. The adjustable damping function combined with the auto-HOLD function ensures fast and precise work. Net weight of a baby in a nappy? Choose TARE. The amount of milk breast-fed to a baby? Use the BMIF (Breast-Milk-Intake-Function). Measuring and weighing in one step? With the optional measuring rod seca 233. Transmit the weight measurement wirelessly to the seca 360° wireless network? Just press SEND. You can do it from any location because the seca 376 is operated by batteries, so there’s no need for electrical outlets.

- Capacity: 20 kg
- Graduation: 5 g < 7.5 kg > 10 g
- Functions: TARE, BMIF, HOLD, auto-HOLD, auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Optional: measuring rod seca 233, head and foot positioners
- System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101

**seca 233**

Measuring rod for baby scale seca 376

The measuring rod seca 233 with integrated head and foot positioner turns the seca 376 into a complete measuring and weighing system. A single time-saving step for measuring and weighing is made possible by the easy assembly and effortless read-out of results.

- Measuring range: 35 – 80 cm
- Graduation: 1 mm

**Accessories**

- With seca 360° wireless technology and the press of a key, the seca 376 can send every measurement to a seca wireless printer or to software seca analytics 115 on the PC.
- Power supplied by batteries for mobile use.

**Accessories**

- The optional measuring rod allows simultaneous weighing and height measurement.
- Head and foot positioners can be easily adjusted for all-around security.
seca 336
Mobile electronic baby scale

The battery operated scale with large, easy-to-read LCD display combines innovative technology with space-saving design. Due to its low weight and integrated handle (can also be used for hanging the scale), it is easy to transport and is quickly ready for use anywhere. The optional measuring rod seca 232 allows measuring and weighing in one step.

- Capacity: 15 kg
- Graduation: 10 g
- Functions: TARE, HOLD, automatic switch-off
- Optional: measuring rod seca 232, head positioner seca 419, switch-mode mains adapter seca 400, carrying case seca 428

Low weight and practical handle make transport effortless.

The baby scale can be easily stored and transported.

Accessories

seca 232
Measuring rod for baby scale 336

Just as easy to fit as it is to read: this baby measuring rod with integrated head and foot positioners makes the seca 336 even more efficient because now weighing and measuring can be done in one step.

- Measuring range: 35 – 80 cm
- Graduation: 1 mm

The optional measuring rod allows measuring and weighing in one step.

Accessories

seca 428
Carrying case for seca baby scale

The baby scale seca 336 can be safely and efficiently transported in this customised carrying case of water-repellent material equipped with a shoulder strap and practical padding.
Two scales in one: the seca 385 and seca 384 baby scales with a comfortable weighing tray. In no time at all, it can be converted into a floor scale for children with a capacity of 50 kg (seca 385) or 20 kg (seca 384). The weighing tray and the base which serves as the floor scale are securely locked together, thus ensuring that the baby can be weighed absolutely safely. A further advantage of the scale is its Breast-Milk-Intake-Function which determines how much milk the baby has consumed. The robust but lightweight scale is easy to transport; self-explanatory buttons make it easy to operate.

**seca 385**
- Capacity: 50 kg
- Graduation: 20 g < 20 kg > 50 g
- Functions: TARE, BMIF, HOLD, automatic switch-off
- Optional: measuring board seca 417, carrying case seca 414 (for combination with measuring board) and seca 413

**seca 384**
- Capacity: 20 kg
- Graduation: 10 g < 10 kg > 20 g
- Functions: TARE, BMIF, HOLD, automatic switch-off
- Optional: measuring board seca 417, carrying case seca 414 (for combination with measuring board) and seca 413

Baby scales that can also weigh toddlers? There is such a thing – from seca of course. The high capacity of the seca 385 lets you weigh toddlers and children. Simply remove and set aside the weighing tray for babies and the scale is ready for heavier loads of up to 50 kilograms.

Accessories

**seca 413**
Carrying case for baby scales seca 385 or seca 384

With this case, baby scales seca 385 or seca 384 can be transported comfortably and safely. The exact fit of the seca 413 provides optimum protection and the large opening facilitates the packing and unpacking of the scales. An adjustable shoulder strap makes transport easier and the water-repellent nylon surface keeps everything dry.

**seca 745**
Mechanical baby scale with sliding weights

This model combines classic design with high-quality precision mechanics. Determining an exact weight is child’s play, thanks to the smooth movement of precise sliders. The gently curved weighing tray keeps the baby safe during every step of the weighing process. The resetting function that puts the scale back to zero lets the user reliably determine net weight. Before the baby is weighed, the weight of soft padding in the tray or of the baby’s nappy can be deducted from the gross weight with use of the reset-to-zero function. The impact-resistant and scratchproof finish makes it easy to care for the seca 745 and contributes to the scale’s guaranteed long service life.

- Capacity: 16 kg
- Graduation: 10 g
- Functions: reset-to-zero function

The reset-to-zero function guarantees reliable determination of net weight by simply deducting the extra weight of padding or nappy.
Paediatric measuring systems
Adaptable devices are preferred.

Clinics, medical practices and health care facilities have varied conditions and requirements. seca responds with a wide range of products for paediatrics – from the infantometer to measuring mat and from measuring rods to the head circumference measuring tape. seca has the right solution for every application, whether the devices are for in-patient or mobile use, in large or small spaces, for everyday or infrequent use. They all share the renowned seca quality which always lives up to the most demanding medical requirements.

seca 416
Infantometer for measuring babies and toddlers in hospital

The sturdy construction and stability of the infantometer makes it quick and easy to measure babies and toddlers up to two years old. The board is generously designed and the raised and softly rounded sides guide the baby easily and safely into the right position. Permanently mounted with rollers on two guide rails, the footpiece slides smoothly along the scale. Because the footpiece is lockable, the baby can be removed and the result noted later. All parts are tough and durable.

- Measuring range: 33 – 100 cm
- Graduation: 1 mm

An infantometer with a lock-in-place footpiece? There is such a thing – from seca of course. The footpiece on the infantometer seca 416 smoothly slides into position, but cannot be displaced by baby’s stomping feet. With the footpiece firmly in place, you can simply measure and read the results. No more readjustments made necessary by a restless baby.
seca 417

Light, space saving and stable measuring board also ideal for mobile use

The seca 417’s fold-up mechanism and low weight make it compact and easy to transport. For all that, the removable foot stop is securely guided along rails. The measuring board is simple to use and, thanks to its smooth surface, easy to clean. Durability and a long service life are guaranteed by high-quality materials.

- Measuring range: 10 – 100 cm
- Graduation: 1 mm
- Optional: baby scales seca 384, carrying case seca 414 (for combination with baby scales) and seca 412

The high-quality folding mechanism guarantees a long service life. The measurement results are easy to read from the large scale.

Possible combination

seca 385/384, seca 417 and seca 414

The mobile measuring and weighing system for babies and toddlers

Easy-to-use, space-saving, mobile: the mobile measuring and weighing system by seca. To measure and weigh babies and toddlers in a lying position, with double-use baby scales seca 385 or seca 384 and the measuring board seca 417. Packed in the carrying case seca 414 for simple, lightweight and convenient transport.
**seca 210**
Mobile measuring mat for babies and toddlers

Kind to the skin, washable, foldable with fitting for storing on wall: the lightweight, space-saving solution for easy, precise measurement of the length of babies and toddlers while lying down. The fixed head piece and the sliding foot positioner make it simple to use.

- Measuring range: 10–99 cm
- Graduation: 5 mm

Although rugged, the surface is easy to care for and can be cleaned with all commercially available disinfectants.

**seca 207**
Baby measuring rod with large calipers

For precise measuring when a baby is lying down. The measuring rod can be firmly screwed to the changing table (wall mounting also possible) or used as a mobile rod. Large head and foot positioners make it easy to determine the length and the calipers fold for ease of storage. Made of aluminum for durability.

- Measuring range: 0–99 cm
- Graduation: 1 mm

Movable calipers at one end of the measuring rod make this instrument suitable for use with both babies and toddlers.

**seca 212**
Measuring tape for head circumference of babies and toddlers

The measuring tape is made of non-stretch Teflon synthetic material and measures both the head circumference (front side) and the symmetry of the face (reverse side). A practical dispenser (containing 15 tapes) ensures that they are stored safely.

- Measuring range: 5–59 cm
- Graduation: 1 mm

Precise and easy-to-read measurements made possible by clear red markings.

The scale’s high-quality printing is especially tear-resistant. Measurements are precisely displayed and easy to read even after years of use.

A scale on each side permits measuring of head circumference and facial symmetry.
Measuring stations and column scales

What can a scale do besides weigh?
Think.

The measuring stations and column scales by seca are distinguished by high precision and many features that simplify everyday medical work. Routine procedures are shortened, measuring and weighing are sped up and measurements from some products are transmitted to a PC or seca 360° wireless printer. So doctors and nurses always have the data they need at hand. Even the minor details like intuitive operation or easy cleaning of the platforms get a lot of attention at seca.
The measuring stations by seca

measure and weigh in a single step.

The measuring stations by seca are a big help in everyday medical work. Thanks to the combination of measuring rod and scale, height and weight can be digitally obtained in a single procedure. There’s no longer any effort involved in figuring out the BMI. Once the patient’s height has been confirmed, the BMI appears in the display.

seca 285

Wireless measuring station for body height and weight

The 360° wireless measuring station seca 285 measures and weighs in a single step. Other benefits include the high-capacity scale integrated in a stable glass platform, the heel positioner and the solid headpiece with the integrated seca Frankfurt Line – for precise head positioning. Not to mention the two displays. One is for a direct read-out of height from the headpiece and the other, a three-line multi-function touch display, shows height, weight and the automatically calculated BMI. On top of all that, the scale shows the slightest weight changes with its fine 50-gram graduation and transmits all measurements via the seca 360° wireless.

Scales:
- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, pre-TARE, mother/child-function, HOLD, auto-HOLD, auto-BMI, CLEAR, auto-CLEAR, damping, SEND/PRINT
- RS232 compatible

Measuring rod:
- Measuring range: 30 – 220 cm
- Graduation: 1 mm
- Functions headpiece: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101

Height and weight measured, displayed and transmitted together? There is such a thing – by seca, of course. With the wireless measuring station seca 285, height and weight can be obtained in one step. Along with the automatically calculated BMI, the results are shown in the three-line display. As required, the data can be quickly and securely transmitted wirelessly to a seca 360° wireless printer or PC.

It takes just the press of a key on the multi-function touch display to send the measurements to a seca 360° wireless printer or PC. No need to worry about fingerprints – the touch display is very easy to clean.

The measured height is shown in the display on the headpiece.

The measured height is shown in the display on the headpiece.

The Frankfurt Line, which is offered only by seca, makes sure the patient’s head is in exactly the right position.

The stable glass platform with integrated heel positioner guarantees precise measurement results and a secure foothold, even on a free-standing scale in the middle of the room.

For seca 285:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

seca added value

For seca 285:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support
With the electronic measuring and weighing station seca 764, both the height and weight of a patient can be obtained in just one step. After measuring and weighing, both values are indicated on two LCDs integrated into the display panel. On the basis of these values, the seca 764, at the touch of a button, automatically calculates the BMI of the patient. This value provides information on the general nutritional condition of the patient on the basis of the recognised WHO standard. With its capacity of 250 kg, its low platform and very robust design, the measuring and weighing station is particularly suitable for heavy weight patients.

Column scales:
- Capacity: 250 kg
- Graduation: 100 g
- Functions: TARE, HOLD, auto-BMI
- Optional: RS232 interface seca 460

Integrated Measuring rod:
- Measuring range: 110–200 cm
- Graduation: 1 mm

The display shows height and weight simultaneously in two windows.

The scale’s low height enables even heavy patients to step effortlessly onto the platform.

Height can be measured digitally with the integrated measuring rod.

The headpiece on the height measuring rod is especially large to ensure correct positioning of the head. Precise measurements are guaranteed.

Alternative

seca 764
Electronic measuring and weighing station with integrated printer

In addition to the easy determination of both height and weight, this version of the seca 764 also provides absolutely reliable documentation of the results. The integrated thermal printer in the display is activated when the scale is mounted. As soon as the patient steps off the scale, height, weight and BMI values are automatically printed out. The measuring station is equipped with a time module, so the time and date are also printed on the 57 mm wide diagnostic printout. This not only guarantees that data is easily and safely recorded but also rules out errors in data transfer.

Accessories

seca 460
RS232 interface for connection to printer or PC

This interface allows the seca 764 measuring station to be connected directly to a PC or printer.

The integrated thermal printer documents measurements on paper.

Thanks to the connection between scales and PC or printer, it is easy to analyse and record measurements.
The column scales by seca help wherever they can.

After more than 170 years, it’s nearly impossible to imagine the medical field without seca scales. Thanks to the high precision, durable construction, and robust electronics, it is clear that there are precise details that go into every seca scale. Details like unmatched low energy consumption or smooth-rolling castors, make for effortless transport into the next room.

A column scale that can receive height measurements and then calculate the BMI? There is such a thing – by seca, of course. With the help of the new seca 360° wireless technology, the seca 704 can receive data from a wireless stadiometer (seca 274 or seca 264) and then automatically calculate the BMI from height and weight. Do the results need to be sent wirelessly to a PC or to a seca 360° wireless printer? It’s as easy as pressing the function key.

**seca 704**

Wireless column scale with capacity up to 300 kilograms

Weighing small children to obese patients – the seca 704 can do it all. Especially when it comes to finding out BMI and height. Then there are two options: integrate a mechanical measuring rod or receive data wirelessly from a separate digital stadiometer. Other advantages include the high load bearing capacity of up to 300 kg for heavy patients, the large, flat platform and time-saving functions Pre-TARE, HOLD, auto-HOLD and mother/child-function. With everything primed for the future and integration in EMR using the seca 360° wireless.

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, pre-TARE, mother/child-function, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Optional: measuring rod seca 220 or seca 234, switch-mode mains adapter seca 400
- RS232 compatible
- System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264
seca 799
Electronic column scale with BMI function

Versatile, low-maintenance and site-independent with eco-nomic battery operation – the seca 799 is ideal for daily use in hospitals and doctors’ practices. With its transport castors, the column scale is also easy to move around. The seca 799 is equipped with several intelligent functions. For example, the BMI function permits a reliable evaluation of the nutritional condition of the patient. The column scale can also be fitted with the optional measuring rods seca 220 or seca 224 so that both height and weight can be determined in just one time-saving step.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: TARE, HOLD, BMI, automatic switch-off
- Optional: measuring rod seca 220 or seca 224, switch-mode mains adapter seca 400

seca 224
Side-mounted telescopic measuring rod for seca column scales

This telescopic measuring rod can be fitted to many existing seca column scales. Its side mounting position means the measuring piece is always positioned centrally and above the head, even with overweight patients, thus enabling trouble-free measurement.

- Measuring range: 60–200 cm
- Graduation: 1 mm

seca 711
Mechanical column scale with eye-level beam

With a capacity of 220 kg, these mechanical column scales are the ideal solution for weighing heavy patients. This is due partly to the generously proportioned, low platform. A ridged rubber mat also safely prevents the patient from slipping when stepping onto the scales. The scale is printed on both sides to allow both the patient and the user behind the scales to read the weight. The high-quality base is made of cast iron, the column from steel – this guarantees not only firm footing, but also a long service life. The column scale can also optionally be fitted with the seca 220 measuring rod.

- Capacity: 220 kg
- Graduation: 100 g
- Functions: reset-to-zero function
- Optional: measuring rod seca 220

seca 220
Telescopic measuring rod for seca column scales

This telescopic measuring rod can be fitted at any time to many seca column scales. It has the same convenient eye-level read out even for taller patients.

- Measuring range: 60–200 cm
- Graduation: 1 mm

The optional telescopic measuring rod allows convenient weighing and measuring in one step.
Flat scales

Even space-saving scales do plenty for the patient.

Where space is limited, there is still enough room for seca scales and their many functions. Routine medical work is made easier. Other features of seca flat scales include the high weight-bearing capacity of up to 300 kilograms and the extremely long usage, powered by a battery set. Practical accessories such as carrying cases and a stand for a separate display, make work easier for the user.
seca 635
Wireless platform and bariatric scale

Obesity is the fastest growing health problem in the world. This battery-operated digital scale has been especially developed for weighing obese patients, with a weighing range of up to 300 kg and a non-slip 56 x 56 cm platform, only 5.5 cm high – a sturdy base for overweight or obese patients. A chair may also be used on the scale and will not influence the weighing result due to the pre-TARE function. The cable remote display (cable length: 2.5 m) with easy-to-read LCD can be held, wall mounted or placed on a table. The 100 g graduation means that the smallest changes in weight are registered, even after the patient has left the scale – thanks to the HOLD function. The integrated Body Mass Index (BMI) function and the seca 360° wireless technology, which can be used to transmit the measurements to a seca wireless printer or PC at the push of a button emphasises the many uses of this unique multifunctional scale.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Optional: stand for cable remote displays seca 472, switch-mode mains adapter seca 400
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 406, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

seca 899
Flat scale with cable remote display

A two-meter long cable connects the display with the weighing base. Advantage: the display can be set up separately from the base and read from its position on the wall or desk. Additional convenience is supplied by the many extra weighing functions: BMI for nutritional conditions, HOLD to keep measurements displayed and TARE for weighing small children held in an adult’s arms, for example. It is suitable for stationary or mobile use, thanks to its handle, compact size, low weight and a leveling base for set-up on all types of surfaces.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: TARE, HOLD, BMI, automatic switch-off
- Optional: stadiometer seca 217 combined with adapter element seca 437, switch-mode mains adapter seca 400, carrying case seca 414 (for combination with stadiometer and adapter element) and seca 421

The angle of the display can be adjusted for easy reading and can be used separately from the base.

seca 472
Stand for cable remote displays of seca scales

The seca 472 stand is the stable solution for cable remote displays of the seca 635, seca 657 and seca 675 scales. The sturdy construction with non-slip steel feet can be positioned anywhere quickly and securely. The display element can easily be attached to the stand by means of a stable bracket.

Accessories

- Carrying case seca 421

This carrying case is made from water-repellent material to allow safe transportation of the seca 899 flat scale. The handy side pocket also allows safe transportation of a cable remote display or other accessories.
The seca 878 can do everything that a scale in mobile use should do and more. It is light, extremely robust, easy to operate, provides precise measurements in any level of humidity and has a long battery life – or can alternatively be connected to the mains. When conducting one examination after the other, there’s no need to bend over repeatedly, thanks to the push button that can be turned on and off with a toe tap. The double display lets the patient and medical personnel read the results from two different angles at the same time. Thanks to the 2 in 1 button, the scale can weigh a child held in its parent’s arms.

- Capacity: 200 kg
- Graduation: 100 g < 150 kg > 200 g
- Functions: mother/child-function, HOLD, automatic switch-off
- Battery-operated or using mains adapter
- Optional: stadiometer seca 217 combined with adapter element seca 437, switch-mode mains adapter seca 400, carrying case seca 414 (for combination

Possible combination

**seca 878, seca 217, seca 437 and seca 414**

Mobile measuring and weighing system for school children and adults

To determine height and weight of school children and adults in a standing position, a special adapter element turns the stadiometer and flat scale into a perfect measuring and weighing station. It delivers two measurements in one step – with the same quality found in hospitals. Even though the elements are lightweight and easily assembled, the system is extremely stable and warp-resistant. Almost like a permanent installation.
Flat scales for mobile use • 5756

Scales intended for mobile use have to be lightweight. These scales are nevertheless very stable and suitable for persons weighing up to 200 kilograms. They stand firmly on four leveling feet that guarantee stability, even when small children are weighed while held by an adult. The mother/child-function (seca 877) ascertains, and displays the weight of the child with just the touch of a button. Accuracy assured with a fine division of 100 g (seca 877).

**seca 877**
- **Capacity:** 200 kg
- **Graduation:** 100 g < 150 kg > 200 g
- **Functions:** mother/child-function, tap-on automatic switch-on, automatic switch-off
- **Optional:** stadiometer seca 217 combined with adapter element seca 437, carrying case seca 414 (for combination with stadiometer and adapter element), carrying case seca 415

**seca 875**
- **Capacity:** 200 kg
- **Graduation:** 200 g
- **Functions:** tap-on automatic switch-on, automatic switch-off
- **Optional:** stadiometer seca 217 combined with adapter element seca 437, carrying case seca 414 (for combination with stadiometer and adapter element), and seca 415

**Accessories**

**seca 415**
Carrying case

This practical carrying case can be used to safely transport the flat scales seca 878, seca 877 and seca 875.
Height measuring systems

When the quality is right, so are the measurements.

Measuring rods and circumference measuring tapes are relatively simple devices in routine medical work – they still have to fulfill challenging clinical requirements. That’s why seca produces such items as non-abrasive measurement scales and parts made of distortion-resistant anodized aluminum. For quality you can feel – in devices that transmit your data at the touch of a button into the seca 360° wireless network and in headpieces that always glide smoothly into position and so guarantee consistently precise measurements.
If you are looking for a wireless solution for taking height measurements, you cannot go wrong with the free-standing digital stadiometer seca 274. Its individual parts of high-quality aluminum can be easily assembled and tightly screwed together and its measuring range from 30 cm to 220 cm can be used for small children to adults. Additional benefits include the stable glass platform, the white backlit display on the headpiece and wireless data transmission. Data can be sent to a seca 360° wireless printer, a PC or a wireless scale that can calculate the BMI from height and weight measurements.

- Measuring range: 30 - 220 cm
- Graduation: 1 mm
- Functions: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, seca mBCA 515, column scales seca 704, flat scales seca 635, multifunctional and wheelchair scales seca 645, seca 685, seca 677, seca 655, seca 657 and chair scales seca 959

A wireless stadiometer that can send its measurements to a PC? There is such a thing – from seca of course: the digital stadiometer seca 274 (free-standing) and seca 264 (for wall mounting). Both transmit the measured height with the help of the newest seca 360° wireless technology to the PC, where they are analysed by the PC software seca analytics 115. From there they can also be transmitted to an Electronic Medical Record (EMR) system.

- Measuring range: 30 - 220 cm
- Graduation: 1 mm
- Functions: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, seca mBCA 515, column scales seca 704, flat scales seca 635, multifunctional and wheelchair scales seca 645, seca 685, seca 677, seca 655, seca 657 and chair scales seca 959
seca 217
Stable stadiometer for mobile height measurement

The mobile stadiometer seca 217 boasts unmatched stability, a cleverly designed assembly system and particularly high-quality materials. All this lends the stadiometer an exceptionally high degree of stability – almost the same as a permanent installation. In addition, the adjustable spacer ensures a secure hold without any fittings. Suitable for medical practices and hospitals, the stadiometer is also just right for mobile use, such as examinations of children at school or patients at home. When disassembled, the stadiometer is easy to carry anywhere.

- Measuring range: 20–205 cm
- Graduation: 1 mm
- Optional: adapter element seca 437 (for combination with flat scale seca 899, seca 878, seca 877 or seca 875), carrying case seca 414 or seca 412

seca 213
Portable stadiometer

At only 2.4 kg, the seca 213 mobile stadiometer is especially suitable for use in the field but also ideal for doctors’ practices and paediatric hospitals. The measuring rod can be dismantled into several pieces and set up easily and quickly. The spacer keeps the rod straight and stable without any fittings. As the scale is printed along the side of the measuring rod, it is easy to read off the result while measuring, thus guaranteeing precise results – up to a height of 205 cm.

- Measuring range: 20–205 cm
- Graduation: 1 mm
- Supplied with the seca 412 carry case

seca 222
Mechanical telescopic measuring rod with large measuring range

Specially developed for wall mounting, this measuring rod is aligned to work exactly to the millimeter from tip to toe. Its broad measuring slide and heel positioner are professional prerequisites. The telescopic measuring rod ensures that the result can be easily read at eye level even for the tallest patient. When not in use, the measuring slide can be folded down for safety.

- Measuring range: 6–230 cm
- Graduation: 1 mm

The spacer provides extra stability and ensures precise measurement results.
The robust base plate guarantees a sturdy stance.
The seca 437 adapter element connects the stadiometer to a flat scale.
The integrated handle and securely locking parts make the stadiometer easy to carry.
Large platform for stability.
The foot positioner ensures exact positioning and precise measurements.
seca 216
Mechanical measuring rod for children and adults

The seca 216 has a variable scale with a range of 3.5 to 230 centimeters that is inserted into a 138 cm frame. The plastic frame is simply mounted on the wall at the desired height. As the user can choose the range shown in the frame, the seca 216 is suitable for measuring children or adults. The results are clearly displayed in a window on the side of the rod and held in place by the locking screw on the head piece. Suitable for international use, the scale is printed in centimeters on one side of the tape and centimeters and inches on the other.

- Measuring range: max. 138 cm, variable from 3.5–230 cm
- Graduation: 1 mm

seca 206
Mechanical measuring tape

The space-saving solution with roll-up mechanism. Uncomplicated fixing on wall with just one screw. With the display window in the head piece, it’s easy to read the height. The durable tape is made of metal.

- Measuring range: 0–220 cm
- Graduation: 1 mm

seca 201
Ergonomic circumference measuring tape

Because today’s circumference tapes also have to satisfy high medical demands, seca has developed the seca 201 which can measure girth with millimeter precision. The high-quality mechanics guarantee that the 205 cm long tape unwinds easily and locks in place precisely. The housing sits comfortably and securely in the user’s hand and is tough enough to withstand accidental dropping.

- Measuring range: 0–205 cm
- Graduation: 1 mm
Multifunctional and wheelchair scales

Effortless for the patient, easy for medical staff.

Weighing can be a complicated process, but it doesn’t have to be. The multifunctional and wheelchair scales by seca are easy to use whether the patient is sitting in a wheelchair or standing. Four load cells ensure that a patient can be measured regardless of position – standing without support or holding onto the handrail, in the middle of the scales or at the edge. There is no need for careful positioning of the patient or adjustments to the scales. Emphasis is on convenient operation with wireless transmission of data to a PC or a seca 360° wireless printer.
Equip with a very low, easy-access platform, a stable handrail, and high weight-bearing capacity, this multifunctional scale ensures safe and comfortable weighing of heavy patients. The integrated handrail provides the patient with support throughout the weighing process – or sat on a chair placed on the generous platform. The pre-TARE function with three memory cells automatically deducts a stored weight (such as a chair) to determine net weight. The seca 645 is also equipped with seca 360° wireless technology which can be used to transmit the measurement results wirelessly to a seca wireless printer or the seca software on a PC. Moreover, the seca 645 is made mobile by two rubber wheels and a power supply provided by rechargeable batteries or power adapter. When the scale is connected to a printer, the time of weighing and the patient’s weight are automatically recorded and printed by the time module.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, RESET, automatic switch-off, SEND/PRINT
- Optional: measuring rod seca 223
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 485, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

For seca 645 and seca 685:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

The patient can be safely and accurately weighed while standing, seated or in a wheelchair. No conversion is required. The stable handrail supports the standing patient, the integrated fold-down seat provides comfort for the seated patient, and the large platform (76 x 82 cm) accommodates a patient in a wheelchair. The weight of the wheelchair or walker is simply deducted with use of the pre-TARE function. Special attention has been given to making the scale easy to access and safe, with a stop barrier provided for the front wheels of the wheelchair. Furthermore, the seca 685 is equipped with the new seca 360° wireless technology, which wirelessly transmits all measurements to a seca wireless printer or to seca software on a PC. Additional details: easy-to-read swiveling display can be turned toward patient or care provider, the practical HOLD function shows the weighing result after the patient has left the platform, the damping function ensures precise results, the non-slip rubber coating and handrail guarantee a firm foothold and integrated transport castors make the scale mobile. The access ramp seca 470 is included in the supply schedule.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, SEND/PRINT
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 485, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

A fold-out seat with integrated damping system? There is such a thing – from seca of course. Our wireless multifunctional scales seca 685 have a stop barrier for wheelchairs and another detail that adds to overall safety. A spring in the mechanism for the integrated seat keeps the seat securely in place until it is released for use.

Accessories

**seca 223**
Telescopic measuring rod for handrail scales

This easy-to-fit measuring rod (fittings included) converts the handrail scale seca 645 into a real all-round talent. The determined height can be entered directly into the control unit of the seca 645 so that all relevant data is captured and used to determine the BMI.

- Measuring range: 6 – 230 cm
- Graduation: 1 mm

The optimal measuring rod permits measuring and weighing in one step.
Wireless wheelchair scale with handrail and transport castors

Stable, functional and mobile: thanks to its large platform and sturdy handrail, the seca 677 is extremely versatile. Patients can be weighed while sitting in a wheelchair or on a chair. The handrail provides valuable support for people who are frail or can walk only with great difficulty. After use the scale can be folded together to save space. The sturdy locking device between rail and platform ensures that the seca 677 stands safely even when folded. The handrail also serves as a handle when the scale is folded, allowing the scale to be moved around or stowed away effortlessly and quickly on its transport castors. Weighing is simple and user-friendly with the clearly designed, operable display at hip level, additional functions of TARE, auto-HOLD, BMI, auto-CLEAR, damping, SEND/PRINT.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, SEND/PRINT
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

Wireless electronic wheelchair scale

With its high capacity of 300 kg, this scale makes it easy to weigh even heavy patients. Easy access is assured by its extremely low platform and the self-lowering ramps. The secure side rails give additional safety. An integrated pre-TARE function determines in seconds the net weight of the patient by utilizing internal weight memory. All the data can be transmitted wirelessly to a printer or PC immediately after weighing. The swiveling LCD with large letters is easy to read both for the patient and for the care provider. The seca 665 can be folded up in no time and can be transported anywhere, thanks to its roller castors.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

A handrail for support that doesn’t falsify the measurement? There is such a thing – from seca of course. The handrail on our transportable wireless wheelchair scale seca 677 gives the patient a feeling of security and, thanks to its special technology, delivers accurate measurements even when the patient leans on or holds onto the handrail.

For seca 665:

- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

Multifunctional and wheelchair scales
seca 657

Wireless electronic platform scale with innovative memory function

The especially large platform of the seca 657 makes it possible to weigh patients on all commonly used stretchers or trolleys. Patients can also be weighed while sitting in wheelchairs or on a chair. A unique characteristic of the seca 657 is the memory function. This practical feature helps to lighten the workload especially in the emergency unit: first the total weight of the patient and stretcher or wheelchair is determined. The stretcher or wheelchair is then weighed separately and the net weight of the patient appears automatically on the display. A cable remote display with easy-to-read LCD figures is included in delivery. This display is operated intuitively and is equipped with many additional functions. With the pre-TARE function, the extra weight of a stretcher or wheelchair can be deducted directly from the total weight during the weighing process. With the BMI function, the nutritional condition of the patient can be determined. Thanks to its robust design and capacity of 300 kg, the seca 657 can weigh even heavy patients with no problem at all. With the practical castors and integrated handles, the seca 657 is also transportable for use in various locations. And with the seca 360° wireless technology, the measurements can be sent to a seca wireless printer or the PC at the push of a button.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Optional: stand for cable remote displays seca 472
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

seca 675

Electronic platform scale

This electrically-operated, generously-sized wheelchair/platform scale is multifunctional. It weighs patients in care, especially heavy patients, persons in wheelchairs and seated patients with circulatory trouble, even during dialysis. The flexible cable remote display can be placed anywhere (e.g. on a desk or table) for convenient read-out and operation of the controls. A wall mounting is also provided. Transport castors and a handle make the seca 675 mobile.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, auto-HOLD, BMI, auto-CLEAR, damping, automatic switch-off, SEND/PRINT
- Optional: stand for cable remote displays seca 472
- RS232 compatible

System compatible with: 360° wireless printer advanced seca 466, 360° wireless printer seca 465, 360° wireless USB adapter seca 456, software seca analytics 115 and seca emr flash 101, stadiometers seca 274 or seca 264

Accessories

seca 472

Stand for cable remote displays of seca scales

The seca 472 stand is the stable solution for cable remote displays of the seca 635, seca 657 and seca 675 scales. The sturdy construction with non-slip steel feet can be positioned everywhere quickly and securely. The display element can easily be attached to the stand by means of a stable bracket.

seca 470

Second ramp for seca 675

Optional accessory: this ramp for platform scale seca 675 makes it even easier to get onto the scales with a wheelchair from both sides.

For seca 657:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

The free-standing display guarantees comfortable read-out of measurements.

The integrated ramps make it easy to mount the scales.

A ramp for easy roll-on of wheelchairs is included in delivery.

Thanks to the ramp, a wheelchair rolls easily and comfortably onto the platform.
Chair scales by seca
Competence takes the chair.

How can you gently and carefully weigh bedridden patients or people who are unsteady on their feet? The best choice is a seca chair scale, which you can take directly to the patient. That saves nursing staff from unnecessary steps. And with the scale’s wireless function, transmission of data to a printer or a PC is quick and easy.

A chair scale that has a graduation of 50 grams? There is such a thing – from seca, of course. The seca 959 is the first and only wireless chair scale on the market that weighs with a graduation of 50 grams. The advantage of this fine graduation is particularly important in paediatrics. Now children who cannot stand on their own can be weighed precisely and accurately while seated. Furthermore, medical personnel can detect the slightest weight changes in serial measurements with the seca 959.

Wireless chair scale to weigh seated patients

Care and comfort were kept in mind when designing the stable model with a circular steel tube frame. The comfortable seat provides a safe position while the swiveling armrests and adjustable footrests make the chair scale more user-friendly. The locking rear wheels ensure that it is safe to sit down and stand up at all times. The positioning of the large LCD display unit behind the chair permits intuitive operation of functions TARE, HOLD and BMI. At the press of a button, the seca 360° wireless technology transmits measurements to a seca wireless printer or a PC. This mobile chair scale, which can be operated by a rechargeable battery or mains adapter, provides enormous help in rehab, orthopaedics, dialysis centres and nursing homes. Its fine graduation of 50 grams is particularly valuable in paediatrics, allowing small children who cannot yet stand on their own to be weighed while seated. The practical pouch seca 471 attached to the scale frame stores the mains adapter.
seca 955

Digital chair scale with swivelling arm and foot rests

Consideration and comfort – these are particularly prominent aspects of this extremely stable model with its circular steel tube frame. A comfortable seat provides a safe position, the separately swivelling armrests make it easy to move the patient from the bed onto the chair scale and the fold-away footrests increase ease of operation. The locking rear wheels ensure that it is safe to sit down and stand up at all times. The positioning of the large LCD unit behind the chair makes it easy to read and the many functions (including BMI) leave nothing to be desired. This mobile chair scale, with mains adapter or a rechargeable battery power supply, is an invaluable aid everywhere: in the rehabilitation centre, orthopaedic department, dialysis centre and nursing homes. Small children who are not yet able to stand can also be weighed comfortably while sitting. The practical pouch seca 471 attached to the scale stores the mains adapter.

- Capacity: 250 kg
- Graduation: 50 g < 150kg > 100g
- Functions: TARE, HOLD, BMI, automatic switch-off

The ergonomic handle makes the scale easier to push.

seca 956

Chair scale for weighing while seated

With a capacity of 200 kg and a graduation of 100 grams, the seca 956 fulfils all basic medical standards. Added to that are the typical seca advantages such as fold-up armrests and footrests, secure wheel brakes, an ergonomically shaped seat and smooth rollers, which, together with the ergonomically shaped handle, make it very easy to push the chair scale. Of course the seca 956 is also equipped with the important TARE function which allows every newly added weight to be ascertained separately and the HOLD function which lets medical personnel take care of the patient first and read out the results later.

- Capacity: 200 kg
- Graduation: 100 g
- Functions: TARE, HOLD, automatic switch-off

The armrests can also be folded away to allow patients better access from the side. The footrests can be folded away to make it easier for patients to stand up and sit down.

The seca 956 is running on batteries instead of mains power, and offers a capacity of 200 kg.
Every gram counts when lying in bed.

Our bed and dialysis scales have been carefully tested in the past by specialists and intensive care consultants in dialysis and burn units. They are now also being used to an increasing extent in nursing homes, since every gram is important in the case of immobile patients. The bed and dialysis scales from seca with their alarm function can assist critical monitoring in the case of clinical procedures involving the loss of fluid or special fluid turnover, or simply in areas where patients can be weighed only in bed.

seca 985
Electronic bed and dialysis scale with equipment trolley

Always in use: the seca 985 facilitates the easy, gentle and precise weighing of bedridden patients and is an indispensable aid in dialysis and intensive care. With the integrated lifts, four load cells can be placed easily and effortlessly under the castors of the bed. The previously determined weight of the bed is deducted using the TARE function and the patient’s precise weight is determined. In the event of a power failure, the scale stores all previously displayed values using rechargeable batteries. When not in use, the four bed lifts can be stored on the equipment trolley.

- Capacity: 500 kg
- Max. patient weight: 250 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, pre-TARE, HOLD, BMI, limit value, damping
- Optional: RS232 interface seca 460

The patented lift mechanism permits placement of the load cells without any effort.
**Specialised scales and BMI calculator**

**Small size, big help.**

As a specialist for medical measuring and weighing, seca naturally offers solutions for special medical applications. For instance, the splash-protected organ swap and nappy scale, the extremely precise portion and diet scale for clinical nutritionists or the practical BMI calculator that quickly determines a patient’s nutritional condition.

---

**seca 856**

Electronic organ, swab and nappy scale with stainless steel cover

The organ scale seca 856 has been designed to meet the specific requirements in its area of application. The raised display is protected from soiling by fluids and the specially sealed battery compartment keeps moisture away from the electronic parts. This scale also fulfills tough hygienic standards with a sealed stainless steel surface that’s easy to clean. With the aid of the pre-TARE function, the additional weight of containers can simply be deducted for precise determination of net weight. The fine one-gram graduation ensures highly precise results.

- **Capacity:** 5 kg
- **Graduation:** 1 g < 3 kg > 2 g
- **Functions:** TARE, pre-TARE, HOLD, automatic switch-off

---

**seca 852**

Digital portion and diet scale

Operation of these scales with the TARE function is wonderfully simple. It can be repeatedly reset to zero, regardless of how many ingredients are already in the bowl. The scales and bowl are so perfectly matched that the scales simply slip into the bowl for storage.

- **Capacity:** 3 kg
- **Graduation:** 1 g
- **Functions:** TARE, automatic switch-off

---

**seca 491**

BMI calculator

Obesity is considered to be the fastest growing health risk in the world. It is therefore all the more important to determine the exact nutritional condition of a patient with the Body Mass Index (BMI) – one of the few internationally acknowledged values when it is a question of obtaining a meaningful height/weight ratio. With our battery and solar-operated BMI calculator seca 491, every doctor, nurse and care provider can determine the BMI simply and quickly in a few steps.

---

The stainless steel surface is tough and easy to clean.

The smooth food-safe surface allows easy cleaning of the bowl.

In storage too the scale and bowl have a perfect connection.

The fine graduation to just one gram permits precise weighing.
seca printers don’t just print –
they also assist with analysis.

Measurements received from the seca 360° wireless products can be printed out by seca wireless thermal printers. The printers also assist with the analysis and interpretation of the data by presenting BMI in graphic displays and comparing growth percentiles of children with the relevant statistical norms.

**seca 466**
seca 360° wireless printer advanced for reception, analysis and printing of measurements on thermal paper or labels

With the wireless printer advanced seca 466 with integrated automatic cutting tool, measurements transmitted by the seca 360° wireless products can be printed quickly onto thermal paper or labels, which are then automatically separated. It also handles the automatic interpretation and analysis of results. The printer formats a graph of weight, height and BMI and compares the findings to standard ranges. The required reference values, which are on a separate memory card, can be configured easily with the seca print designer software. Other data such as the date and time format, language and the hospital or doctor’s practice logo are processed in the same way.

- Print speed: 80 mm/sec
- Functions: print-out of height, weight, BMI, resting or total energy expenditure or percentiles for children, integrated automatic cutter
- Optional: 5 or 50 rolls of thermal paper seca 485, 1 or 24 rolls of labels seca 486
- Included with printer: SD smart card, power adapter, SD card reader, 1 roll of thermal paper, 1 roll of labels

System compatible with: all measuring devices and scales in the seca 360° wireless system

**seca 465**
seca 360° wireless printer for analysis and printing of transmitted measurements on thermal paper

The seca 465 wireless printer is exactly the right partner for wireless measuring rods and scales by seca. Via its wireless receiver and pre-configured SD smart card, the printer receives the measurements transmitted by seca devices and analyses the data. The printer compares height and weight to reference values as defined by WHO, CDC and Kromeyer-Hauschild et al., and ascertains percentiles for children. Resting energy expenditure and total energy expenditure based on parameters of gender, age and PAL (Physical Activity Level) are also calculated. As needed, Body-Mass-Index (BMI) or Body Fat Rate (BFR) can be analysed and printed.

- Print speed: 80 mm/sec
- Functions: print-out of height, weight, BMI, resting or total energy expenditure or percentiles for children
- Optional: 5 or 50 rolls of thermal paper seca 485
- Included with printer: SD smart card, power adapter, SD card reader, 1 roll of thermal paper

System compatible with: all measuring devices and scales in the seca 360° wireless system

The seca print designer software lets you integrate the logo used by the hospital/practice in the print-out. Or you can specify in which language the information should be printed.
Software

Analyse and transmit. This solution gives you more out of measuring.

With the new free software application seca emr flash 101, the seca 360° wireless products can transmit their results directly to any EMR system. The software is 100% compatible with all the EMR systems currently on the market. The software seca analytics 115 goes a step further by analysing and interpreting the weight and height data and the measurements from the seca mBCA using 7 analysis modules. This process supports the doctor with early detection of disease, documentation tasks, and therapy success, as well as patient consultation.*

seca analytics 115

Medical PC software for diagnostic assistance

With the network-capable software seca analytics 115, optionally available with three or six workstation licenses, doctors can process the measurements from their seca 360° wireless products, including the seca mBCA, in seven modules on the PC and thereby significantly improve the quality of the medical examination. Assistance is provided not only by the three integrated modules “Energy”, “Cardiometabolic Risk” and “Growth/Development”, but also the four additional seca mBCA modules “Fluid”, “Function/Rehabilitation”, “Health risk” and “Raw impedance data”. In the total of seven modules, medical inquiries about the patient’s general health status and nutritional condition are answered, measurements compared to standard values and findings displayed in a therapy planner. The entire analysis can be printed on a conventional printer on a DIN A4 sheet specially configured by the user. This type of diagnostic assistance adds a completely new dimension to medical advice and gives doctors’ offices and hospitals a distinct competitive advantage.

System requirements:

- Supported operating systems: Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2003 (SP2) and 2008 R1 (SP2)
- Processor: 1.2 GHz or higher
- Hard Disk Space: minimum 1 GB
- Memory: minimum 512 MB RAM
- Additional HW: DVD drive
- Ports: for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
- Display: 1024x768, High Colour (16-bit), 32-bit (recommended)

System compatible with: in combination with seca 360° wireless USB adapter seca 456 system compatible with all products in the seca 360° wireless system

1 single location license free with every seca mBCA 515

*Can also be connected to RS232.
Free software to connect seca 360° wireless products to Electronic Medical Record (EMR) systems

Simple, efficient and free — without any additional expense, medical science can take a giant step forward. The intuitive software seca emr flash 101, which transmits measurements directly to an EMR system, is now available as a free download at www.seca.com. In just seconds your measurement data from seca 360° wireless measuring devices and scales is assigned to the right patient ID.

System requirements:
- Supported operating systems: Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2003 (SP2) and 2008 R1 (SP2)
- Ports: for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)

System compatible with:
- in combination with seca 360° wireless USB adapter seca 456 system compatible with all products in the seca 360° wireless system

Is there a software program that can communicate with all EMR systems? Of course — from seca. No other manufacturer of measuring systems and scales offers direct wireless data transmission to an EMR system. But with the new free software application seca emr flash 101, you can transmit your measurements from seca 360° wireless products directly into an EMR system. The technological standard of the EMR system doesn’t matter at all.

For seca analytics 101:
- Remote or on-site installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

Accessories

sec456
seca 360° wireless USB adapter for data reception on PC

The USB adapter seca 456 enables any PC to receive wireless data from seca measuring systems and scales. This eliminates annoying cable connections in the examination rooms and, with the PC software seca analytics 115, allows measurements to be stored in the seca database or fed into an EMR system, and provides other parameters in a PDF file (EMR-integrated). The labour-intensive process of documenting examination findings is turned into a speedy and paperless matter.

System requirements:
- Supported operating systems: Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2003 (SP2) and 2008 R1 (SP2)

System compatible with:
- software and USB adapter in combination are compatible with all products in the seca 360° wireless system

The wireless reception of measurements on the PC is the decisive step toward Electronic Medical Records.
seca mBCA

Medical Body Composition Analyzer.

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General

Dimensions (WxHxD) 976 x 1,251 x 828 mm
Capacity 300 kg
Weight 36 kg
Display 8.4" Touch-screen display, can be rotated 360°
Power supply mains adapter
Approval class Medical Device Class IIa
Interfaces

Bioelectrical Impedance Analysis

Measurement method 8-point Bioelectrical Impedance Analysis
Measurement frequencies 1; 1.5; 2; 3; 5; 7.5; 10; 15; 20; 30; 50; 70; 100; 150; 200; 300; 500; 750; 1,000 kHz
Measurement segments right arm, left arm, right leg, left leg, right half of body, left half of body, torso
Measurement current 100 μA
Measurement time max. 20 seconds

Technical data for scale

Capacity Weighing range 1 = 150 kg
Weighting range 2 = 300 kg
Fine graduation Weighing range 1 = 50 g
Weighting range 2 = 100 g

Accessories

PC software seca analytics 115 (with one workstation license included) combined with the 360° wireless USB adapter seca 456 is compatible with all products in the seca 360° wireless system.

Software

seca analytics 115

Medical PC software for diagnostic assistance.

Page 14 – 23

Technical data

Dimensions (WxHxD) 137 x 192 x 7 mm

System requirements

Supported operating systems Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2003 (SP2) and 2008 R1 (SP2)
Processor 1.2 GHz or higher
Hard Disk Space minimum 1 GB
Memory 512 MB RAM
Additional HDD DVD drive
Ports for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)
Display 1024x768, High Colour (16-bit), 32-bit (recommended)

System compatible with

diose 360° wireless

PC software seca analytics 115 (with one workstation license included) combined with the 360° wireless USB adapter seca 456 is compatible with all products in the seca 360° wireless system.

Accessories for software

seca 456

seca 360° wireless USB adapter for data reception on PC.
## Baby scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 757</td>
<td>Electronic baby scale with digital display and serial interface RS232.</td>
</tr>
<tr>
<td>seca 717</td>
<td>Electronic baby scale with digital display.</td>
</tr>
<tr>
<td>seca 376</td>
<td>Electronic baby scale with shell-shaped tray and raised LCD. With wireless data transmission.</td>
</tr>
<tr>
<td>seca 336</td>
<td>Electronic baby scale with practical handle for mobile medical use.</td>
</tr>
<tr>
<td>seca 385</td>
<td>Multi-purpose, electronic baby and infant scale with detachable tray for weighing in a reclining or standing position.</td>
</tr>
<tr>
<td>seca 384</td>
<td>Multi-purpose, electronic baby and infant scale with detachable tray for weighing in a reclining or standing position.</td>
</tr>
<tr>
<td>seca 745</td>
<td>Mechanical baby scale with sliding weights.</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Graduation</th>
<th>Dimensions (WxHxD) (mm)</th>
<th>Weight</th>
<th>Power supply</th>
<th>Approval class</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 kg</td>
<td>2 g</td>
<td>520 x 180 x 225</td>
<td>2.8 kg</td>
<td>Mains adapter, rechargeable batteries</td>
<td>0123</td>
<td>TARE, BMIF, HOLD, Auto-HOLD, Auto-CLEAR, Damping, Reset-to-zero function, Automatic switch-off, RS232 interface, RS232 compatible, SEND/auto-SEND, PRINT/auto-PRINT, Measuring rod/measuring board, Head/foot positioner, Interface cable, Mains adapter, Carrying case, Optional</td>
</tr>
</tbody>
</table>

### Accessories for baby scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 231</td>
<td>Measuring rod for baby scales, accessory for seca 717.</td>
</tr>
<tr>
<td>seca 233</td>
<td>Measuring rod for baby scales, accessory for seca 717.</td>
</tr>
<tr>
<td>seca 232</td>
<td>Measuring rod for baby scales, accessory for seca 717.</td>
</tr>
<tr>
<td>seca 435</td>
<td>Trolley, designed for use with baby scales, paper rollholder, brake castors, door protection rollers.</td>
</tr>
<tr>
<td>seca 429</td>
<td>Head and foot positioners for baby scale seca 717, if no measuring rod seca 233 is mounted.</td>
</tr>
<tr>
<td>seca 418</td>
<td>Head and foot positioners for baby scale seca 336, if no measuring rod seca 233 is mounted.</td>
</tr>
<tr>
<td>seca 419</td>
<td>Head and foot positioners for baby scale seca 336, if no measuring rod seca 233 is mounted.</td>
</tr>
<tr>
<td>seca 451</td>
<td>Interface cable for seca 757.</td>
</tr>
<tr>
<td>seca 400</td>
<td>Switch-mode mains adapter for baby scales seca 376 and seca 336.</td>
</tr>
<tr>
<td>seca 414</td>
<td>Case with handle and shoulder strap for electronic baby scales seca 385 and seca 384 in combination with seca 417 or seca 419.</td>
</tr>
<tr>
<td>seca 413</td>
<td>Carrying case for baby scales seca 385 and seca 384.</td>
</tr>
<tr>
<td>seca 413BP</td>
<td>Backpack for baby scales seca 385 and seca 384.</td>
</tr>
</tbody>
</table>

### Measuring range

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>Graduation</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
<th>Cable length</th>
<th>Chair length</th>
</tr>
</thead>
<tbody>
<tr>
<td>35–80 cm</td>
<td>1 cm</td>
<td>640 x 285 x 177 mm</td>
<td>700 g</td>
<td>1.2 m</td>
<td>42 x 35 x 73 mm</td>
</tr>
<tr>
<td>76–120 cm</td>
<td>1 cm</td>
<td>640 x 285 x 177 mm</td>
<td>700 g</td>
<td>1.2 m</td>
<td>42 x 35 x 73 mm</td>
</tr>
<tr>
<td>15–30 cm</td>
<td>5 g</td>
<td>645 x 174 x 294 mm</td>
<td>13 kg</td>
<td>1.5 m</td>
<td>42 x 35 x 73 mm</td>
</tr>
<tr>
<td>23–50 cm</td>
<td>10 g</td>
<td>645 x 174 x 294 mm</td>
<td>220 g</td>
<td>1.5 m</td>
<td>42 x 35 x 73 mm</td>
</tr>
<tr>
<td>23–50 cm</td>
<td>10 g</td>
<td>645 x 174 x 294 mm</td>
<td>220 g</td>
<td>1.5 m</td>
<td>42 x 35 x 73 mm</td>
</tr>
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<td>15–30 cm</td>
<td>10 g</td>
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</tr>
<tr>
<td>23–50 cm</td>
<td>10 g</td>
<td>645 x 174 x 294 mm</td>
<td>220 g</td>
<td>1.5 m</td>
<td>42 x 35 x 73 mm</td>
</tr>
</tbody>
</table>
Accessories for paediatric measuring systems

<table>
<thead>
<tr>
<th>seca 414</th>
<th>seca 412</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case for measuring instruments seca 417 together with baby scales seca 385 or seca 384</td>
<td>Case for infantometer seca 417</td>
</tr>
</tbody>
</table>

**Technical data**

<table>
<thead>
<tr>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>623 x 360 x 210 mm</td>
<td>3.8 kg</td>
</tr>
<tr>
<td>686 x 427 x 50 mm</td>
<td>810 g</td>
</tr>
</tbody>
</table>

Paediatric measuring systems

<table>
<thead>
<tr>
<th>seca 416</th>
<th>seca 417</th>
<th>seca 210</th>
<th>seca 207</th>
<th>seca 212</th>
</tr>
</thead>
</table>

**Technical data**

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>Graduation</th>
<th>Dimensions (WxHxD)</th>
<th>Dimensions box (WxHxD)</th>
<th>Dimensions when folded (WxHxD)</th>
<th>Weight</th>
<th>Quantity in dispenser</th>
</tr>
</thead>
<tbody>
<tr>
<td>33–100 cm</td>
<td>1 mm</td>
<td>1,103 x 169 x 402 mm</td>
<td>140 x 145 x 30 mm</td>
<td>577 x 115 x 333 mm</td>
<td>3.8 kg</td>
<td>15 pieces</td>
</tr>
<tr>
<td>10–100 cm</td>
<td>1 mm</td>
<td>1,110 x 115 x 333 mm</td>
<td>120 x 140 x 300 mm</td>
<td>100 x 140 x 300 mm</td>
<td>1.6 kg</td>
<td>15 pieces</td>
</tr>
<tr>
<td>10–99 cm</td>
<td>5 mm</td>
<td>1,333 x 140 x 360 mm</td>
<td>25 x 1 x 183 mm</td>
<td>140 x 140 x 30 mm</td>
<td>575 g</td>
<td></td>
</tr>
<tr>
<td>0–99 cm</td>
<td>1 mm</td>
<td>1,047 x 120 x 286 mm</td>
<td>810 g</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0–59 cm</td>
<td>1 mm</td>
<td>25 x 1 x 183 mm</td>
<td>80 g (box)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Head circumference measuring tape for babies and infants, made of non-stretch Teflon. For measuring head circumference and symmetry.</td>
<td>Head circumference measuring tape for babies and infants, made of non-stretch Teflon. For measuring head circumference and symmetry.</td>
<td>Head circumference measuring tape for babies and infants, made of non-stretch Teflon. For measuring head circumference and symmetry.</td>
<td>Head circumference measuring tape for babies and infants, made of non-stretch Teflon. For measuring head circumference and symmetry.</td>
<td>Head circumference measuring tape for babies and infants, made of non-stretch Teflon. For measuring head circumference and symmetry.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Measuring stations and column scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Technical Data</th>
<th>Functions/Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 711</td>
<td>Scale for heavy patients with large platform, cable-link remote control and high back-up capacity. With wireless data transmission.</td>
<td>Capacity: 200 kg, Graduation: 100 g</td>
<td>Pre-TARE, Hold, Auto-Clear, BMI, Patient data input, Reset-to-zero function, Ambient light, Acoustic signals can be activated, Calibration, Automatic calibration, RS232 compatible, USB/Auto-SEND, PRINTER/Auto-PRINT, Integrated printer, Integrated measuring rod, Transport castors.</td>
</tr>
</tbody>
</table>

### Flat scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Technical Data</th>
<th>Functions/Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 635</td>
<td>Robust flat scale with cabled remote display, BMI, HOLD and TARE for mobile use.</td>
<td>Capacity: 100 kg, Graduation: 100 g</td>
<td>Pre-TARE, Hold, Auto-Clear, BMI, Patient data input, Reset-to-zero function, Ambient light, Acoustic signals can be activated, Calibration, Automatic calibration, RS232 compatible, USB/Auto-SEND, PRINTER/Auto-PRINT, Integrated printer, Integrated measuring rod, Transport castors.</td>
</tr>
<tr>
<td>seca 878</td>
<td>Robust, very light flat scale with integrated display, Tap-on automatic switch-on and mother/child function for mobile use.</td>
<td>Capacity: 150 kg, Graduation: 100 g</td>
<td>Pre-TARE, Hold, Auto-Clear, BMI, Patient data input, Reset-to-zero function, Ambient light, Acoustic signals can be activated, Calibration, Automatic calibration, RS232 compatible, USB/Auto-SEND, PRINTER/Auto-PRINT, Integrated printer, Integrated measuring rod, Transport castors.</td>
</tr>
</tbody>
</table>
Height measuring systems

### Accessories for measuring stations, column and flat scales

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sec 274</td>
<td>Telescopic measuring rod for wall mounting with wireless data transmission.</td>
</tr>
<tr>
<td>sec 264</td>
<td>Telescopic measuring rod for wall mounting with wireless data transmission.</td>
</tr>
<tr>
<td>sec 217</td>
<td>Stand-alone stadiometer for height measurement, easily assembled for convenient transport.</td>
</tr>
<tr>
<td>sec 213</td>
<td>Stand-alone stadiometer for the wall with extra wide measuring slides and heel stops.</td>
</tr>
<tr>
<td>sec 222</td>
<td>Telescopic measuring rod for the wall with extra wide measuring slides and heel stops.</td>
</tr>
<tr>
<td>sec 216</td>
<td>Mechanical stadiometer, pivotable with locking arm for accuracy.</td>
</tr>
<tr>
<td>sec 206</td>
<td>Roll-up measuring tape with wall attachment.</td>
</tr>
<tr>
<td>sec 201</td>
<td>Ergonomic, smoothly extractable measuring tape for determining body circumference.</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Item</th>
<th>Measuring range</th>
<th>Graduation</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>sec 274</td>
<td>30–220 cm</td>
<td>1 mm</td>
<td>330 x 1,480 x 286 mm</td>
<td>600 g</td>
</tr>
<tr>
<td>sec 264</td>
<td>30–220 cm</td>
<td>1 mm</td>
<td>460 x 3 x 370 mm</td>
<td>70 g</td>
</tr>
<tr>
<td>sec 217</td>
<td>20–205 cm</td>
<td>1 mm</td>
<td>330 x 1,480 x 286 mm</td>
<td>810 g</td>
</tr>
<tr>
<td>sec 213</td>
<td>20–205 cm</td>
<td>1 mm</td>
<td>333 x 66 x 310 mm</td>
<td>50 g</td>
</tr>
<tr>
<td>sec 222</td>
<td>20–205 cm</td>
<td>1 mm</td>
<td>333 x 66 x 310 mm</td>
<td>125 g</td>
</tr>
<tr>
<td>sec 216</td>
<td>20–205 cm</td>
<td>1 mm</td>
<td>333 x 66 x 310 mm</td>
<td>125 g</td>
</tr>
<tr>
<td>sec 206</td>
<td>20–205 cm</td>
<td>1 mm</td>
<td>333 x 66 x 310 mm</td>
<td>125 g</td>
</tr>
<tr>
<td>sec 201</td>
<td>20–205 cm</td>
<td>1 mm</td>
<td>333 x 66 x 310 mm</td>
<td>125 g</td>
</tr>
</tbody>
</table>

### Accessories for height measuring systems

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sec 437</td>
<td>Adapter element for stadiometer sec 217 in combination with flat scales sec 869, sec 876, sec 877 and adapter element sec 437.</td>
</tr>
<tr>
<td>sec 414</td>
<td>Case for column scales sec 869, sec 876, sec 877 and adapter element sec 427.</td>
</tr>
<tr>
<td>sec 412</td>
<td>Case for mobile stadiometer sec 217 and sec 213.</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>sec 437</td>
<td>330 x 86 x 310 mm</td>
<td>600 g</td>
</tr>
<tr>
<td>sec 414</td>
<td>625 x 350 x 210 mm</td>
<td>3.6 kg</td>
</tr>
<tr>
<td>sec 412</td>
<td>666 x 427 x 58 mm</td>
<td>600 g</td>
</tr>
</tbody>
</table>
Multifunctional and wheelchair scales

- **seca 645**: Large handrail scale for multifunctional use, high load-bearing capacity and BMI function. With wireless data transmission.
- **seca 685**: Electronic multifunctional scale with stable handrail and high load-bearing capacity, for transport ease. With wireless data transmission.
- **seca 677**: Electronic wheelchair scale with handrail and transport caddy. With wireless data transmission.
- **seca 665**: Electronic wheelchair scale with extended flat-top surface and ramp, suitable for transport caddies. With wireless data transmission.
- **seca 657**: Electronic wheelchair scale with extended flat-top surface and transport caddy. With wireless data transmission.
- **seca 675**: Electronic platform scale with high capacity and integrated transport ramp, suitable for transport caddies. With wireless data transmission.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>seca 645</th>
<th>seca 685</th>
<th>seca 677</th>
<th>seca 665</th>
<th>seca 657</th>
<th>seca 675</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>300 kg</td>
<td>300 kg</td>
<td>300 kg</td>
<td>300 kg</td>
<td>300 kg</td>
<td>300 kg</td>
</tr>
<tr>
<td>Graduation</td>
<td>150 g / 200 kg / 300 g</td>
<td>150 g / 200 kg / 300 g</td>
<td>150 g / 300 kg / 500 g</td>
<td>150 g / 300 kg / 500 g</td>
<td>150 g / 300 kg / 500 g</td>
<td>150 g / 300 kg / 500 g</td>
</tr>
<tr>
<td>Dimensions</td>
<td>520 x 927 x 562 mm</td>
<td>760 x 1,100 x 820 mm</td>
<td>760 x 55 x 930 mm</td>
<td>760 x 55 x 930 mm</td>
<td>760 x 55 x 930 mm</td>
<td>760 x 55 x 930 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>25.4 kg</td>
<td>30.5 kg</td>
<td>6.3 kg</td>
<td>6.3 kg</td>
<td>6.3 kg</td>
<td>6.3 kg</td>
</tr>
</tbody>
</table>

**Functions & Accessories**
- **Functions**: Hold, Pre-TARE, TARE, Auto-TARE, Auto-CLEAR, Auto-HOLD, Auto-PRINT, BMI, Damping, Graduation
- **Replacement Adapters**: Rechargeable batteries, Mains adapter

**System compatible with**
- **seca 360° wireless**

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Chairs scales

- **seca 995**: Electronic chair scale with fine graduation, swivelable arms and footrests, with BMI function. With wireless data transmission.
- **seca 955**: Digital chair scale with swivelable arms and footrests.
- **seca 956**: Electronic chair scale with fold up arms and footrests.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>seca 995</th>
<th>seca 955</th>
<th>seca 956</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>250 kg</td>
<td>250 kg</td>
<td>250 kg</td>
</tr>
<tr>
<td>Graduation</td>
<td>50 g / 150 kg / 300 g</td>
<td>50 g / 150 kg / 300 g</td>
<td>50 g / 150 kg / 300 g</td>
</tr>
<tr>
<td>Dimensions</td>
<td>520 x 927 x 562 mm</td>
<td>760 x 1,100 x 820 mm</td>
<td>760 x 55 x 930 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>25.4 kg</td>
<td>30.5 kg</td>
<td>6.3 kg</td>
</tr>
</tbody>
</table>

**Functions & Accessories**
- **Functions**: Hold, Pre-TARE, TARE, Auto-TARE, Auto-CLEAR, Auto-HOLD, Auto-PRINT, BMI, Damping, Graduation
- **Replacement Adapters**: Rechargeable batteries, Mains adapter

**System compatible with**
- **seca 360° wireless**

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Bed and dialysis scales

- **seca 985**: Electronic bed and dialysis scale with integrated mechanical drive and equipment trolley.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>seca 985</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>250 kg</td>
</tr>
<tr>
<td>Graduation</td>
<td>100 kg / 300 kg / 500 kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>850 x 1,360 x 2,580 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>25.4 kg</td>
</tr>
</tbody>
</table>

**Functions & Accessories**
- **Functions**: Hold, Pre-TARE, TARE, Auto-TARE, Auto-CLEAR, Auto-HOLD, Auto-PRINT, BMI, Damping, Graduation
- **Replacement Adapters**: Rechargeable batteries, Mains adapter

**System compatible with**
- **seca 460**

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**Accessories for multifunctional and wheelchair scales and bed and dialysis scale**

- **seca 223**: Telescopic measuring rod for the seca 645 handrail scales.
- **seca 472**: Stand for display elements of seca scales with cable remote displays.
- **seca 470**: Drive-up ramp as accessory for seca 675.
- **seca 460**: RS232 interface for transmitting data to PC printer for seca 985.

**Technical data**

- **seca 223**: 6–230 cm
- **seca 472**: 81 cm x 385 x 188 mm
- **seca 470**: 150 g
- **seca 460**: 9998
**Organ, swab and nappy scales**

### seca 856
Organ, swab and nappy scales with protected electronics for precise determination of net weight.

**Technical data**
- Capacity
- Graduation
- Dimensions (WxHxD)
- Weight
- Power supply

**Additional Accessories**
- TARE: Pre-TARE
- LCD: Automatic switch-off

---

**Digital portion and diet scales**

### seca 852
Digital portion and diet scale with perfect fitting bowl for safe storage, fixed graduation.

**Technical data**
- Capacity
- Graduation
- Dimensions (WxHxD)
- Weight
- Power supply

**Accessories for printers**
- SD card reader
- Mains adapter

---

**BMI calculator**

### seca 491
Battery and solar operated BMI calculator for quick, easy determination of the individual Body Mass Index (BMI).

**Technical data**
- Dimensions (WxHxD)
- Weight
- Power supply

**Components**
- BMI
- Automatic switch-off

---

**Wireless printers**

### seca 465
seca 360° wireless printer for reception, analysis and printing of measurements on thermal paper or labels, with integrated automatic cutter.

**Technical data**
- Dimensions (WxHxD)
- Weight
- Power supply
- Data transmission
- Print speed
- Print width

**System requirements**
- Processor
- Hard Disk Space
- Memory
- Additional HW
- Ports

**Software**

### seca emr flash 101
Free software to connect seca 360° wireless printers to Electronic Medical Record (EMR) Systems.

**Technical data**
- Dimensions (WxHxD)
- Weight

**System requirements**
- Operating systems:
  - Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2008 R1 (SP2), 32-bit (recommended)
  - Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2008 R1 (SP2)

**System compatible with**
- all measuring devices and scales in the seca 360° wireless system

---

**Accessories for wireless printers**

### seca 466
Thermal paper rolls for seca 360° wireless printers seca 465 and seca 466.

**Technical data**
- Dimensions (WxHxD)
- Weight
- Packaging unit

**Software**

### seca analytics 115
Medical PC software for diagnostic assistance.

**Technical data**
- Dimensions (WxHxD)
- Weight

**System requirements**
- Operating systems:
  - Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2008 R1 (SP2)
  - Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2008 R1 (SP2), 32-bit (recommended)

**System compatible with**
- all measuring devices and scales in the seca 360° wireless system

---

**Technical data**
- Capacity
- Graduation
- Dimensions (WxHxD)
- Weight
- Power supply
The seca mBCA: Medical Body Composition Analyzer: a device that provides a medically precise measurement of a person's body composition.

BIA Bioelectrical Impedance Analysis: a method of analyzing body composition. This involves measuring the resistance of the body and its parts to a weak alternating electrical current.

FM Fat Mass: the fat mass defines the amount of body fat in kg as an absolute mass and in % as the relative proportion of the body weight.

FFM Fat-Free Mass: the fat free mass is the total body weight minus the fat mass.

BMI Body Mass Index: the unit of measurement for the analysis of body weight in relation to a person's height, calculated using the formula [weight in kg/hight in m^2].

REE The amount of energy that the body needs per day of complete rest, at room temperature and with an empty stomach, in order to keep the bodily functions working.

TEE Total Energy Expenditure: the total energy expenditure consists of the resting energy expenditure and the energy expenditure for everything the body does (muscle work, mental work, other body exertions).

HYD Hydration: the ratio of extracellular water to intracellular water.

BIVA Bioelectrical Impedance Vector Analysis: the way in which the BIVA is presented enables analysis of hydration and cell mass.

Body Composition Chart: the Body Composition Chart developed by seca shows the measurement points of the fat mass index in a coordinate system and helps to determine body composition.

EMR Electronic Medical Record: these are information systems that are used in hospitals to record and present patient information.

These are recognized data formats needed by most EMR systems to process patient data.


The products in this catalog with the label CE (013 or 021) comply with the Council Directive 2006/01/EC concerning medical devices.

The products in this catalog with the label CE (013 or 021) comply with the Council Directive 2006/01/EC concerning medical devices.

Useful when any additional weight (e.g. nappies or blankets of babies/small children and also chairs or wheelchairs) is not to be included in the result. First, this additional weight is measured and then the display is reset to zero. The weight of this object is then displayed at the next weighing.

When activated, a previously stored value is automatically deducted from the currently measured weight. For example, when care provider and patient stand on the scales together and only the weight of the patient is to be shown.

The amount of milk taken by a baby when being breastfed can be ascertained with the aid of the Breast-Milk-Intake Function. At the touch of a button, the weight of the baby determined before feeding is stored and then deducted from the weight determined after feeding (difference function).

This function was developed to enable the weighing of children in the arms of their parents. When the mother/child-function is activated, the previously stored weight of the adult is deducted from the currently determined value. The display then shows only the weight of the child, with an accuracy of down to 50 g.

Once the weight has been saved with a press of the HOLD key, it remains in the display after the patient has left the scale. This function lets the doctor or nurse care for the patient first and then record the weight. When the Auto-HOLD function is activated, the HOLD function is automatically triggered as soon as the weight has stabilised.

The Body Mass Index correlates height and weight to the basis of calculation; extra consideration is given to gender.

Old measurements or patient data can lead to incorrect calculations. Therefore, the CLEAR function deletes results from previously measured patients. It can be activated manually or automatically with Auto-CLEAR function after five minutes.

For effective monitoring of patients, one can preset a weight limit and an alarm ring if this is exceeded.

Damping function

The damping function makes it possible to determine the precise weight in spite of disturbances during the weighing process, e.g. caused by the patient moving. The degree of damping can be adjusted as required before weighing a patient: the stronger the damping, the less sensitively the scales react to the movements during the weighing process.

The RESET function restores the factory settings.

With the PRINT function the measurements and input data are wirelessly transmitted to a seca 360° wireless printer, where they are processed and printed. When the Auto-PRINT function is activated, the PRINT function is automatically triggered when the weight on the scale has stabilised or height measurements have been confirmed.

The BIVA symbol is used only in electronic medical records and for the processing of patient data. The BIVA symbol indicates that the scales comply with the stringent quality requirements of Class III of the Medical Devices Directive (93/42/EWG) and the European standard EN 45501 concerning metrological aspects of non-automatic weighing instruments. The BIVA symbol also conveys the message that seca is authorized to carry out the validation and calibration of the scales.

We are anxious to preserve our natural resources. This is why we strive to save packaging material where practical. And what we save is conveniently disposed of locally via Germany’s DSD System recycling programme.
At seca, we have been understanding medicine since 1840. That is a long time. It is also very important to us, as it is our understanding that enables us to find answers. Only through understanding can we develop products that will provide doctors, nurses, and other health care professionals with effective support for their work. And we also care about the patient’s well-being.

Experience

Experience is valuable if it gives birth to understanding.

- The same process since 1840: develop – question – improve
- Continuous development thanks to our own production sites
- Many years of dedication and expertise in the fight against widespread disease such as chronic obesity

Innovation means thinking outside the box.

- seca products are an integral part of the process of diagnosis and therapy
- More than just products: system solutions for simple integration of data into any EMR system
- Intelligent details make working with patients easier
- The prerequisite for innovation: an in-house development department
- Multi-award winning

Quality

High quality proves itself over time.

- A secure investment: long service life
- Precise measurement under difficult conditions
- Global quality management to local national standards
- All-around service, also after purchasing
- Exclusive authorization from governing bodies to certify our own products

International outlook

If you know the world, you know how the world works.

- The world market leader in medical measuring and weighing
- Products exported to more than 110 countries
- Knowledge of markets and routine medical work in different countries thanks to local subsidiaries and partners
- Used everywhere: from the most advanced clinics to development aids

The brand of the medical field
Push the envelope, reinvent the world and never be satisfied. That’s the way artists have thought since art began and the way we have thought since seca was founded. No wonder that art has grown into an important source of inspiration over our 170 years of existence. It throws up new questions, leads to new perspectives and opens apparently distant horizons – for our products too. But seca would not be seca if we did not invite you to take part. That’s why we commissioned the renowned media artist Christina Lissmann of Berlin five years ago to create an image portfolio for us that reflected the philosophy of our brand. With scenes featuring seca product portraits that transport the viewer into an aesthetically pleasing world. Where fantasy is let free and space opens up for rethinking, challenging the conventional and finding new paths to explore. Welcome to the seca world and to the world of art, where there are absolutely no limits.