Medical Measuring Systems and Scales since 1840

United Kingdom
sec ltd.
40 Barn Street
Birmingham
B5 5CB • England
phone 0121 643 9349
tax 0121 633 3403
info.uk@seca.com

Germany
sec gmbh & co. kg
Hammer Steindamm 3–25
22089 Hamburg • Germany
phone +49 40 20 00 00 0
tax +49 40 20 00 00 50
info@seca.com

sec operates worldwide with headquarters in Germany and branches in:
sec france
sec united kingdom
sec north america
sec schweiz
sec zhejiang
sec nihon
sec mexico
sec austria
sec polska
sec middle east
sec brasil
sec suomi
sec americana latina
sec asia pacific
and with exclusive partners in more than 110 countries.

All contact data under www.seca.com
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 through specialist distributors. This guarantees the level of reliability and service that you expect from us.

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

Primary care

- seca mBCA 515
  - Page 08
- seca mVSA 535
  - Page 18
- Ultrasonic measuring station seca 207
  - Page 54
- Urodynami seca 310
  - Page 71

Secondary care

- seca mBCA 515
  - Page 08
- seca mVSA 535
  - Page 18
- Ultrasonic measuring station seca 207
  - Page 54
- Stadiometer seca 274
  - Page 74

Intensive care

- seca mBCA 525
  - Page 12
- seca mVSA 535
  - Page 18
- Platform scale seca 657
  - Page 96
- Bed and dialysis scale seca 965
  - Page 92

Nephrology & dialysis

- seca mBCA 525
  - Page 14
- seca mVSA 535
  - Page 18
- Multifunctional scale seca 645
  - Page 63
- Platform scale seca 657
  - Page 66

Cardiology

- seca mVSA 535
  - Page 18
- Column scale seca 704
  - Page 58

Neonatology

- Baby scale seca 757
  - Page 36
- Infantometer seca 416
  - Page 44

Gynaecology & obstetrics

- seca mVSA 535
  - Page 18
- Column scale seca 704
  - Page 58

Paediatrics & adolescent medicine

- Baby scale seca 376
  - Page 16
- Baby scale seca 336
  - Page 46
- Ultrasonic measuring station seca 207
  - Page 54

General medicine & rehabilitation

- seca mBCA 515
  - Page 10
- Ultrasonic measuring station seca 287
  - Page 54
- Wheelchair scale seca 677
  - Page 64

Endocrinology & diabetology

- seca mBCA 515
  - Page 12
- seca mVSA 535
  - Page 18
- Ultrasonic measuring station seca 287
  - Page 54
- Platform and bariatric scale seca 635
  - Page 66

Geriatrics

- Chair scale seca 959
  - Page 36
- Wheelchair scale seca 677
  - Page 54

Clinical nutrition

- seca mBCA 515
  - Page 18
- Ultrasonic measuring station seca 287
  - Page 54

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

0121 643 9349
## Contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>seca mBCA .................................................. 08</td>
</tr>
<tr>
<td>02</td>
<td>seca mVSA .................................................... 18</td>
</tr>
<tr>
<td>03</td>
<td>seca 360° wireless .......................................... 24</td>
</tr>
<tr>
<td>04</td>
<td>Paediatric scales and measuring systems ............... 34</td>
</tr>
<tr>
<td></td>
<td>Baby scales ................................................. 36</td>
</tr>
<tr>
<td></td>
<td>Paediatric measuring systems ................................ 44</td>
</tr>
<tr>
<td>05</td>
<td>Measuring stations and column scales .................. 52</td>
</tr>
<tr>
<td></td>
<td>Measuring stations .......................................... 54</td>
</tr>
<tr>
<td></td>
<td>Column scales ............................................... 58</td>
</tr>
<tr>
<td>06</td>
<td>Flat scales .................................................. 64</td>
</tr>
<tr>
<td>07</td>
<td>Height measuring systems ................................ 72</td>
</tr>
<tr>
<td>08</td>
<td>Multifunctional and wheelchair scales .................. 80</td>
</tr>
<tr>
<td></td>
<td>Chair scales ................................................ 88</td>
</tr>
<tr>
<td></td>
<td>Bed and dialysis scale ...................................... 92</td>
</tr>
<tr>
<td>09</td>
<td>Specialised scales/Extras ................................ 94</td>
</tr>
<tr>
<td></td>
<td>Organ, swab and nappy scale ................................ 94</td>
</tr>
<tr>
<td></td>
<td>Digital portion and diet scale ........................... 95</td>
</tr>
<tr>
<td>10</td>
<td>Wireless printers ............................................ 96</td>
</tr>
<tr>
<td>11</td>
<td>Software ..................................................... 98</td>
</tr>
<tr>
<td></td>
<td>Technical data ................................................ 102</td>
</tr>
<tr>
<td></td>
<td>seca technical terms ........................................ 120</td>
</tr>
<tr>
<td></td>
<td>The brand of the medical field ............................ 122</td>
</tr>
<tr>
<td></td>
<td>seca and art ................................................ 124</td>
</tr>
</tbody>
</table>

### seca innovations

- **new**
  - **18** seca mVSA 535 spot-check-monitor for customised configuration
  - **12** seca mBCA 525 the new compact class for mobile body composition analysis
  - **24** seca 360° wireless the world’s first wireless product system
  - **94** seca 287 wireless ultrasonic measuring station for height and weight with voice guidance
Where BMI ends, the seca medical Body Composition Analyzers begin.

Size 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 precisely why we at seca developed medical Body Composition Analyzers, which provide all of these values and have been validated against the medical science gold standard*: It is thereby possible to determine the fat mass, visceral fat, extracellular and intracellular water or the skeletal muscle mass in a medically precise way. In short: The seca mBCA analyzers are innovative instruments for the support of diagnosis and therapy control and enable successful patient consultations.

* Studies:

With five decisive advantages for medicine

1. Medically precise measurements.
2. Assessment of the general health and nutritional status of the patient.
3. Fast examination through short measuring times.
4. Early indicators of various diseases.
5. Exact monitoring of courses of therapy.
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 medical staff. 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.

Data and measurements are sent via an Ethernet or wireless connection to the PC software, which then integrates them into the Electronic Medical Record (EMR) system via the internal network.

The large, easy-access, fast-cleaning, safety glass weighing platform is suitable for use by patients weighing up to 300 kg.

Hand-held electrodes prevent measurement errors and ensure that results are always reproducible.

The intuitive user navigation permits operation of the seca mBCA 515 without hours of training.

The unique standing aid guarantees that the patient always stands in the same measuring position. This ensures the reproducibility of the measurement results.

The integrated touchscreen display not only allows you to enter patient data, but also enables you to monitor the progress of the measurement and conveniently analyse the results from many different perspectives.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The data and measurements are sent via an Ethernet or wireless connection to the PC software, which then integrate them into the Electronic Medical Record (EMR) system via the internal network.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The intuitive user navigation permits operation of the seca mBCA 515 without hours of training.

The integrated touchscreen display not only allows you to enter patient data, but also enables you to monitor the progress of the measurement and conveniently analyse the results from many different perspectives.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The data and measurements are sent via an Ethernet or wireless connection to the PC software, which then integrate them into the Electronic Medical Record (EMR) system via the internal network.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The intuitive user navigation permits operation of the seca mBCA 515 without hours of training.

The integrated touchscreen display not only allows you to enter patient data, but also enables you to monitor the progress of the measurement and conveniently analyse the results from many different perspectives.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The data and measurements are sent via an Ethernet or wireless connection to the PC software, which then integrate them into the Electronic Medical Record (EMR) system via the internal network.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The intuitive user navigation permits operation of the seca mBCA 515 without hours of training.

The integrated touchscreen display not only allows you to enter patient data, but also enables you to monitor the progress of the measurement and conveniently analyse the results from many different perspectives.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The data and measurements are sent via an Ethernet or wireless connection to the PC software, which then integrate them into the Electronic Medical Record (EMR) system via the internal network.

For seca mBCA 515:
- On-site seca mBCA installation service including seca network configuration
- On-site seca mBCA maintenance service

The intuitive user navigation permits operation of the seca mBCA 515 without hours of training.

The integrated touchscreen display not only allows you to enter patient data, but also enables you to monitor the progress of the measurement and conveniently analyse the results from many different perspectives.
The clearly organised presentation of all measurement results simplifies diagnosis and thereby the patient consultation as well. The pressure-sensitive technology enables the menu to be operated even while wearing gloves or under a protective covering.

The measuring mat is a true multifunctional tool. It is powered by its own rechargeable battery that is charged by induction and therefore operated fully self-sufficiently. The measured data is transferred to the monitor via a Wi-Fi signal.

The seca mBCA 525 is the mobile solution for Bioelectrical Impedance Analysis (BIA). Its low weight, good handling and precise measurement technology make it very efficient and versatile. Its technology is one-of-a-kind in the world because fat mass, muscle mass, and body water are determined with a newly developed measuring mat. It is automatically networked by Wi-Fi to the touchscreen monitor, which can store up to 100,000 measurements. This enables many patients to be measured and courses of therapy to be reliably documented for years.

**New 2017 Upgrade**
Combine the seca mBCA 525 with the seca mVSA 526 Smart Bucket (see page 21) and measure four additional vital parameters.

**The correct placement of the electrodes is illustrated on the measuring mat. Each measurement only begins after an automatic electrode test.**

**The electrodes have an Easy Snap™ mechanism and can be quickly connected with the adhesive electrodes without applying any pressure.**

**seca mBCA 525**

**Technical data**

- **Weight:** 3 kg
- **Medical device class:** IIa
- **Electrode type:** adhesive electrodes (PVC-free)
- **Dimensions (WxHxD):** 252 x 262 x 230 mm
- **Interfaces:** Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
- **Measurement method:** 8-point Bioelectrical Impedance Analysis
- **Power supply:** mains adapter, rechargeable battery
- **Measurement current:** 100 μA
- **Measurement time:** 30 seconds
- **Frequencies:** 8
- **Measured data storage:** up to 100,000 measurements
- **Housing made of flame-retardant plastic**
- **Optional:** mobile stand seca 475, carrying case seca 432

**System compatible with seca 360° wireless measuring systems and scales, seca analytics 115 software.**
Clear analysis, clear presentation – the seca mBCA analysis modules.

The analysis results of the seca mBCA analyzers offer the user numerous diagnosis options. With the precise analysis such as fat mass to body weight or extracellular to intracellular water indications of various illnesses can be detected. The seca mBCA 525 also includes the ability to save many measurements so that courses and progress of therapy can be documented. The clearly organised graphical presentation of the measured values on the monitor or as a one-page printout is also very helpful for the patient consultation.

**Body Composition Chart (BCC)**

It seems simple to roughly differentiate between malnourished or obese individuals. However, an extremely thin patient can have a lot of body fat while a seemingly overweight patient can have a high amount of muscle mass. The clearly arranged presentation provides immediate information about the body composition of your patients so you can instantly draw conclusions for therapeutic decisions. Series of measurements enable the therapy to be reliably monitored and controlled.

**Fat mass / fat-free mass / visceral fat**

The fat mass and fat-free mass can be quickly, reliably and precisely recorded only by means of a BIA measurement. It helps to determine and monitor the correct nutritional therapy. The amount of visceral fat can also be precisely determined, which is otherwise possible only through time-consuming imaging procedures. This enables an estimate of the cardio metabolic risk and helps with the determination of further therapeutic strategies.

**Body water**

Total body water, intracellular water and extracellular water are measured separately. This supports the detection of edemas, the improved evaluation of weight increase and decrease and the detection of states of dehydration.

**Bioelectrical Impedance Vector Analysis (BIVA)**

The BIVA forms an important diagnostic basis for nutritional medicine. The measuring point provides information about the state of hydration and the body cell mass, which provides a good overview of the general state of health and nutrition. This makes it possible to detect whether there is malnutrition or if an intervention by means of infusions is necessary, for example. Monitoring over the course of time is especially important for stationary treatments.

**Skeletal muscle mass**

The values for the torso and extremities are provided individually and displayed in a graphic. Increasing and maintaining muscle mass plays a key role in nutritional medicine because it helps to burn fat and positively influences the body’s energy.

**Phase angle**

Studies* verify that a high phase angle shows a good condition of the cells and their functions. A very low phase angle is measured in the case of malnutrition and oncology patients, for example. It is a very good parameter for the general state of health. In diagnostics the severity of many illnesses as well as general states of exhaustion can be verifiably better determined.

---

*Studies:
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 upload the examination results from the seca mBCA and seca mVSA analyzers to your PC. It expands on them significantly, for instance with a module for cardio metabolic risk or a therapy planner.

seca 360° wireless
The measurements from the seca mBCA 515 and other seca 360° wireless products can be received wirelessly by a PC running the seca analytics 115 software. The seca mBCA 525 and seca mVSA 535 transmit the measurement results directly via Wi-Fi.

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 analyzers and the seca analytics 115 PC software use the latest scientific references for the analysis and interpretation of the measurements.

With six decisive advantages for medicine

1. Sets up the PC so that it can wirelessly receive the measurements of the seca mBCA, seca mVSA and other seca 360° wireless devices.
2. Also, offers the cardio metabolic 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.

For seca analytics 115:
- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

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

Fat Mass

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.

The additional module cardio metabolic 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.

Solid scientific foundation
The seca mBCA analyzers and the seca analytics 115 PC software use the latest scientific references for the analysis and interpretation of the measurements.
The world’s first medical Vital Signs Analyzer with BIA measurement.

The complex device measures the conventional four vital parameters of blood pressure, SpO₂, pulse rate, and temperature as well as the complete body composition consisting of fat mass, muscle mass, and body water. You can now measure more parameters in a routine check and broaden your diagnostic and therapeutic options through the combined view of Bioelectrical Impedance Analysis (BIA) and vital signs. This high-performance software communicates with any network and guarantees the error-free transmission of all measurement values to your EMR system.

With four decisive advantages for medicine

1. **Four vital signs and BIA**
   Ideal for a more in-depth body composition analysis and informed diagnoses.

2. **Configurability**
   The seca mVSA can be individually configured to your needs.

3. **Connectivity**
   Eliminates transmission errors and increases the efficiency of your routine measurements.

4. **Future safe**
   The sophisticated technology provides reliable support you can count on.
More knowledge more quickly.
The new seca mVSA.

The multifunctional design of the seca mVSA broadens your medical options and has a wide variety of potential applications due to its compact size. All components are safely and hygienically stored on the device and the Wi-Fi connection option expands its operating range. As a network-compatible spot-check-monitor, all measurement data can be reliably sent to your EMR system and all seca 360° wireless products can be integrated at the push of a button. Mobile work has never been easier.

Technical data

- Dimensions (WxHxD): 252 x 262 x 278 mm
- Net weight: In-ear thermometer version 3.7 kg
- Display type: 7” touchscreen display
- Power supply: Built-in mains adapter, internal rechargeable lithium-ion battery
- Medical device class: IIa
- Interfaces: Wi-Fi, Ethernet, USB 2.0, seca 360° wireless technology
- Compatible printers: Conventional laser and ink jet printers via the seca analytics 115 PC software
- Blood pressure measurement: Oscillometric method
- SpO₂ measurement: Pulse oximetry
- Temperature measurement: With in-ear thermometer or alternatively with your choice of oral/axial or rectal temperature probe
- Bioelectrical Impedance Analysis: 8-point technology from seca
- Possible to connect to all HID-compatible barcode scanners via USB

System compatible with seca 360° wireless measuring systems and scales, seca analytics 115 software.

As if made for you.

Want retrofitting?

No problem!
If you do not yet need a temperature solution or the Bioelectrical Impedance Analysis module when ordering your seca mVSA:

- seca mBCA 531 BIA measuring mat
- seca 475 rolling stand

These two articles can be conveniently ordered afterwards.

Components
Increases your performance and improves your workflow.

Monitoring vital signs is a time-consuming task in hospitals and medical practices. The seca mVSA was developed to support these routine checks and makes these measurements more efficient. Measure the four vital parameters of blood pressure, SpO₂, pulse rate, and temperature in one work step using the components integrated into the spot-check-monitor. The thing that makes the seca mVSA one of a kind in the world is the additional option to measure body composition consisting of fat mass, muscle mass, and body water through a Bioelectrical Impedance Analysis using the integrated measuring mat. You can measure the most important parameters and gain deeper insights into the health status of your patients. You thereby save time and gain additional certainty for the preparation of diagnoses and therapies.

The seca mVSA provides one-of-a-kind medical options. In addition to the variety of measurement values, it is the combination options of vital parameters and measurement values from the bioelectrical impedance analysis in particular that lead to a new and more comprehensive medical understanding.

**Blood pressure**
Blood pressure can be determined particularly quickly and gently using the inflation measurement method. The measurement technology also identifies if the cuff is incorrectly positioned and signals the user.

**Bioelectrical Impedance Analysis**
The complete body composition analysis of fat, water, and muscle components together with the vital parameters can be quickly carried out and offers a unique advantage for diagnoses and therapy evaluations.

**Weight**
The seca mVSA fits perfectly with the seca 360° wireless product range because the previously determined weight value can be transmitted directly to the device. This guarantees a paperless and error-free transmission of measurement values.

**Pulse rate**
The patient’s pulse rate is always measured at the same time. With blood pressure measurement and with pulse oximeter.

**Height**
Just like height, weight can also be transmitted directly to the seca mVSA with seca 360° wireless products. This optimizes the workflow and eliminates transmission errors.

**Temperature**
In addition to the thermometer for in-ear measurement there is also an option for measurement using a temperature probe (oral/axial/rectal). The scope of delivery also includes sensor probe covers.

**BMI**
The determined BMI provides the first orientation. In addition, the bioelectrical impedance analysis determines information on the fat, water, and muscle components to support a valid evaluation of the health status.

---

*Height and weight can be entered manually or transmitted via seca 360° wireless products.*
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.

<table>
<thead>
<tr>
<th>With seven decisive advantages for medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
</tbody>
</table>
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 30). 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, 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.
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.
seca emr flash 101 – software for connecting the seca 360° wireless products to EMR systems.

Many devices bear the label “EMR-ready”, but in practice that isn’t enough. Only EMR-integrated products like the seca emr flash 101 and the seca analytics 115 software permit direct integration of data in an EMR system. They 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 modules
seca offers pre-developed software modules for various EMR systems such as Allscripts Professional. These solutions are very user-friendly through plug and play because 99% of all programming steps have already been carried out. It is also possible to connect via standard protocols (e.g. for the programming languages HL7 and GDT). Some support from the respective EMR system provider or the internal IT department is sufficient for integration into hospital or doctor’s practice databases. One individually configurable programming aid is the API (Application Programming Interface). A module for a specific EMR system can be independently developed in simple programming steps.

seca keyboard module
The seca keyboard module is a data transmission module for the simple wireless transmission of height and weight into the desired electronic documentation by the click of your mouse.

seca directprint module
Our tool for the perfect patient consultation. The clearly organised presentation of the printout simplifies the qualified and efficient weight consultation.

Download seca emr flash 101 on www.seca.com

- EMR synchronisation directly into the patient’s file. All according to your wishes.
  - EMR modules: Allscripts / SystmOne / Cerner or
  - Protocols: HL7 / GDT or
  - API (individual interface programming).
- Quick and easy transmission of height and weight to any interface directly into your electronic documentation (e.g. into Excel or Word).
- Individual printout with helpful information and tips for your patients. Further information on page 32.
The seca directprint is the ideal tool for raising awareness of maintaining a healthy weight. It doesn’t just tell your patient’s their height, weight and BMI, it also gathers together their measurements with lots of sound information and tips in an easy-to-read one page printout. Each patient can be individually addressed and provided with the information most important for them.

A lightweight printout for a weighty subject.

Example of seca directprint, version overweight patient.

| Graphics with patient’s height, weight and BMI data. |
| Explanation of Body Mass Index. |
| Sealer for extra services, e.g. Bioimpedance Analysis. |
| Chart explains energy use during physical activity. |
| Space for personal message from you to your patient. |

Dear Patient,

The greatest contribution to your health is made by YOU!

You are at risk for suffering from overweight. You must take the initiative to lower your weight! By increasing your daily physical activity you can increase your metabolic rate, which in turn reduces your risk for healthy weight loss. The energy expenditure of physical activity is expressed in kcal. The following chart depicts the effects of physical activity on your weight.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Calories Burned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walking</td>
<td>525 kcal</td>
</tr>
<tr>
<td>Cycling</td>
<td>628 kcal</td>
</tr>
<tr>
<td>Running</td>
<td>1043 kcal</td>
</tr>
</tbody>
</table>

If you are interested in your health, please talk to us.

Remember:

- A person with a BMI of 25 or higher is considered overweight. The aim is a healthy weight and an individualized energy balance. By increasing your daily physical activity, you can increase your metabolic rate, which in turn reduces your risk for healthy weight loss.
- Each kilocalorie saved is equivalent to one kilogram of fat.
- To find out what your ideal body weight is, talk to a nutritionist or a doctor in your area.

Please mark the healthy eating and regular physical activity as a priority in your daily life. Even small changes can make a difference.

The BMI is a simple index that accurately predicts important health risks and enables you to make informed decisions about your lifestyle. Every kilogram of your body weight is measured with very high precision, so you can be sure of a reliable result.

Healthy tips:

<table>
<thead>
<tr>
<th>Food</th>
<th>Calories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 min</td>
<td>50 kcal</td>
</tr>
<tr>
<td>15 min</td>
<td>150 kcal</td>
</tr>
<tr>
<td>30 min</td>
<td>225 kcal</td>
</tr>
<tr>
<td>45 min</td>
<td>300 kcal</td>
</tr>
</tbody>
</table>

Helpful advice on good health:

Additional information and interesting articles about seca directprint on our website.

Easy installation and handling – without extra effort.

Quickly and easily obtain an ad hoc health assessment of your patient. In a matter of seconds, you can wirelessly transfer all height and weight measurements to your existing printer and immediately receive an individual printout for your patients.

seca 287
Wireless ultrasonic measuring station for height and weight with voice guidance (alternative: seca 285)

seca directprint
Software module for individual ad hoc assessment of patient

seca 456
seca 360° wireless USB adapter for data reception on PC

One page printout on your existing printer.
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

Wireless baby scale with optimised damping system

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. A new backlit LCD display ensures comfortable reading of the digits, even in dimmed rooms. Power supply is by mains adapter or rechargeable batteries. With everything primed for the future and integration in any EMR system, measurements can be transmitted via the seca 360° wireless system.

- Capacity: 15 kg
- Graduation: 2 g ≤ 5 kg > 5 g
- Functions: TARE, HOLD, Auto-HOLD, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: mobile carts seca 403 and seca 402

Accessories

seca 403 seca 402

Carts for mobile support of seca baby scales

The seca 403 and seca 402 carts are ideal additions to the seca baby scales seca 757, seca 376, seca 536, seca 295 and seca 384. They were specially developed for safe and hygienic routine use in hospitals and medical practices. Customised indentations in the surface accommodate the scale’s base and ensure that the scale does not slip out of place. Two practical brakes keep the cart stable so babies can be safely weighed. Also, you can quickly move the baby scale to its required location by pushing or pulling the cart by its handle. The optionally available paper roll holder seca 408 makes the work even more hygienic (seca 402).
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, damping, automatic switch-off, SEND/PRINT
- Optional: mobile carts seca 403 and seca 402, measuring rod seca 233, head and foot positioners seca 418, switch-mode mains adapter seca 400

System compatible with products of the seca 360° wireless system.

For seca 376:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

Accessories

seca 233
Measuring rod for baby scale seca 376

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

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

seca 418
Head and foot positioners for baby scale seca 376

Easy and convenient: the head and foot positioners seca 418 can easily be attached to the baby scale seca 376. This accessory increases safety by securing baby at head and feet. Integrated handles also make it easier to transport the seca 376.

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

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: mobile carts seca 403 and seca 402, 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.

seca 232
Measuring rod for baby scale seca 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

seca 428
Carrying case for baby scale seca 336

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.

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

The baby scale can be easily stored and transported.
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: 10 g < 10 kg > 20 g < 20 kg > 50 g
- Functions: TARE, BMIF, HOLD, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413

**seca 384**
- Capacity: 20 kg
- Graduation: 10 g < 10 kg > 20 g
- Functions: TARE, BMIF, HOLD, automatic switch-off
- Optional: mobile carts seca 403 and seca 402, measuring board seca 417, backpack seca 409 (for combination with measuring board or measuring mat), carrying case seca 414 (for combination with measuring board), seca 431 and seca 413

**seca 431**
- Backpack to transport baby scales safely and comfortably

Thanks to packing and securing straps for the scale, the seca 431 is a safe and versatile backpack, that can also be used as a bag. Made of high-quality water-repellent material, this case keeps baby scales seca 385 or seca 384 dry.

**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.
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.
The sturdy head piece helps to position the child.

The foot positioner glides smoothly and precisely along special guide rails.

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 385 and seca 384, backpack seca 409 or carrying case seca 414 (each for combination with baby scale) 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

Thanks to its folding mechanism, the mobile measuring board can be stored away compactly and easily transported in this tailor-made carrying case. The robust finish and the durable, water-repellent surface make the bag an indispensable accessory for measuring board seca 417.

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.

Accessories
seca 412
Carrying case for measuring board seca 417

The mobile measuring and weighing system for babies and toddlers
Although rugged, the surface is easy to care for and can be cleaned with all commercially available disinfectants.

The measuring mat can be rolled up for space-saving storage.

**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
  - Optional: backpack seca 409 (for combination with baby scales), carrying case seca 414

**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

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

- The tape is made of non-stretch 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: 3 – 59 cm
  - Graduation: 1 mm
  - 15 pcs. per unit

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

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

Precise and easy-to-read measurements made possible by clear red markings.
seca 211
Disposable measuring tape
for head circumference in practical wall dispenser

The seca 211 measuring tapes are designed to be user-friendly and easy to read with clearly visible measuring points to ensure precise results. The strength of the tape is optimal for easy tearing and refilling. The measuring tapes are recyclable and therefore environmentally friendly. The wall dispenser can be easily installed anywhere.

- Measuring range: 12 – 59 cm
- Graduation: 1 mm

500 / 1,000 pcs. per unit

Extra space to write down name, height, weight and date.
Simple refilling of up to 100 measuring tapes.

The seca 211 and seca 218 are available in a pack of 500 (with dispenser) or 1,000 pieces.

seca 218
Disposable measuring tape in practical wall dispenser

The environmentally friendly and high-quality disposable measuring tapes simplify your hectic routine work. They can be individually removed from the practical wall dispenser for hygienic use. The wall dispenser is space-saving as well as easy to install and refill.

- Measuring range: 0 – 100 cm
- Graduation: 1 mm

500 / 1,000 pcs. per unit
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 287**

Wireless ultrasonic measuring station for height and weight with voice guidance

With the seca 287 we have redefined the technical limit of our measuring stations. Three pairs of ultrasonic sensors record the patient’s height in milliseconds. The regular Auto-calibration ensures precise results. Everything is calculated using a specially developed digital analysis algorithm that ensures an incomparably high degree of measurement precision. The optional deactivatable voice guidance is programmed for independent measurement so that each measurement is carried out reliably and precisely. The seca ultrasonic sensors deliver reliably precise measurement results even in continuous operation, whereby the entire measurement is very comfortable due to the silent acoustics. Everything is designed for maximum support of automated measurement: from the voice guidance to the EMR system connection to the practical printout of the measurement results.

**Scale:**
- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: Pre-TARE, mother/child-function, HOLD, Auto-HOLD, Auto-BMI, CLEAR, Auto-CLEAR, auto weighing range switch-over, damping, SEND/PRINT
- Version: seca 287 dp with directprint function available

**Length measurement:**
- Measuring range: 60 – 210 cm
- Graduation: 1 mm
- Ultrasonic technology: 3 pairs of sensors (3 receivers, 3 transmitters)
- Auto-calibration
- Optional: wireless printer advanced seca 466 and printer holder seca 482, wireless printer seca 465 and printer holder seca 481

**System compatible** with products of the seca 360° wireless system.

For seca 287:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

Height, weight, and BMI – automatically determine, display, and send? This revolution from seca takes care of everything at once. The seca 287 works fully automatically in the seca 360° wireless network and sends all measurement results to the printer or PC. Trust in the 176 years of experience in German medical engineering and increase your flexibility.
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: Pre-TARE, mother/child-function, HOLD, Auto-HOLD, Auto-BMI, CLEAR, Auto-CLEAR, damping, SEND/PRINT
- Version: seca 285 dp with directprint function available

Measuring rod:
- Measuring range: 30 – 220 cm
- Graduation: 1 mm
- Functions headpiece: HOLD, user-defined zero setting, automatic switch-off, SEND/PRINT
- Optional: wireless printer advanced seca 466 and printer holder seca 482, wireless printer seca 465 and printer holder seca 481

System compatible with products of the seca 360° wireless system.

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

seca directprint versions

seca 287 dp  seca 285 dp
Wireless measuring station for height and weight with directprint function 

The seca directprint is the ideal tool for raising awareness of maintaining a healthy weight. It doesn’t just tell your patient’s their height, weight and BMI, it also gathers together their measurements with lots of sound information and tips in an easy-to-read one page printout. In seconds, it provides the ideal ice-breaker for your overweight patients because it draws attention to the subject of overweight and obesity without direct confrontation.

Obtain an easy-to-read one page printout with your patients measurements.
The column scales by seca help wherever they can.

After more than 176 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
- Version: seca 704r with integrated RS232 interface
- Optional: measuring rod seca 220 or seca 224, switch-mode mains adapter seca 400, PC interface cable seca 451 (only for seca 704r)

System compatible with products of the seca 360° wireless system.
Measuring and weighing in a single step – that is why the wireless column scale seca 704 s was developed. In addition to the patient’s weight, the patient’s height is also precisely measured with an integrated measuring rod up to 230 cm. The seca 704 s automatically determines the BMI from these two values. As part of the seca 360° wireless family, the results can immediately be sent wirelessly to a printer or PC. Intelligent details simplify operation so the display can be operated when the patient is still standing on the scale and reading the measuring rod is easy through the printing on both sides. Using the time-saving TARE function, also known as the mother/child-function in pediatrics, the child can be weighed in its mother’s arms without disturbance. The previously stored body weight of the mother is subtracted so that only the weight of the child is obtained. The heel positioner also makes reproducible height measurements possible by means of 3-point measurement.

**Scale:**
- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g
- Functions: TARE, Pre-TARE, mother/child-function, HOLD, Auto-HOLD, BMI, Auto-CLEAR, auto weighing range switch-over, damping, automatic switch-off, SEND/PRINT
- Optional: switch-mode mains adapter seca 400

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

System compatible with products of the seca 360° wireless system.

---

**seca 704 s**

Wireless column scale with integrated measuring rod

**seca 799**

Electronic column scale with BMI function

Versatile, low-maintenance and site-independent with economic 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

---

**Accessories**

**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

---

For seca 704 s:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

X’s very easy to read the numbers printed on the side.

Practical castors permit mobile use.

All it takes is the press of a key to find out BMI.

The non-slip surface on the platform guarantees a safe and secure foothold.

The optional telescopic measuring rod on many seca column scales allows simultaneous measuring and weighing.

System compatible with products of the seca 360° wireless system.
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

Accessories

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 scale is printed on both sides so that both the patient and the user can read the weight.

The broad and flat construction provides easy step-on access and a firm foothold.
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.
Flat scales for heavy patients with a separate display element?
There is such a thing – from seca of course. It is the platform and bariatric scale seca 635. The advantage of the mobile display provides medical staff with the ability to read the results from any location – discreetly and conveniently at a desk, at eye-level on the wall or from a stand in the middle of the room.

**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
- **Version:** seca 635r with integrated RS232 interface
- **Optional:** stand for cable remote displays seca 472, switch-mode mains adapter seca 400, back pack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 421

System compatible with products of the seca 360° wireless system.

**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, back pack seca 409 or 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**

- **For seca 635:**
  - On-site seca 360° wireless installation service
  - Remote or on-site EMR integration support
  - Remote or on-site software support

**seca 421**
Carrying case

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.

**Accessories**

- **With padded sides for completely safe transportation.**

**seca added value**

For seca 635:

- Flat scales for heavy patients with a separate display element? There is such a thing – from seca of course. It is the platform and bariatric scale seca 635. The advantage of the mobile display provides medical staff with the ability to read the results from any location – discreetly and conveniently at a desk, at eye-level on the wall or from a stand in the middle of the room.

- The extra-large platform is easy to step onto and slip-proof.

- The patient’s BMI can be determined when their height is entered.

- It’s easy to step onto the extra large, slip-proof platform.

- System compatible with products of the seca 360° wireless system.
seca 878
Flat scale for mobile use with push buttons and double display

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, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 415

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.

Accessories

seca 409
Backpack for varied use

Those who transport their devices as a mobile nurse or midwife have clear material requirements. The multifunctional backpack seca 409 was therefore developed out of high-quality and water-repellent materials in co-operation with UNICEF. Wide, padded shoulder straps and carrying handles made it comfortable to carry and guarantee a high amount of comfort even on longer trips. Baby scales, flat scales, or measuring boards can thereby be transported easily and especially safe in various possible combinations.

A mobile measuring and weighing system? There is such a thing – from seca of course. With the addition of the adapter element seca 437 for the measuring rod seca 217, the flat scale seca 878 turns into a mobile and very stable 2-in-1-solution. Measuring and weighing can be done at the same time – with the same quality as with permanently installed equipment. When stored in the carrying case seca 414, the mobile measuring and weighing system can be used anywhere.
**seca 877 seca 875**

Flat scales for mobile use

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, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and 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, backpack seca 409 or carrying case seca 414 (for combination with stadiometer and adapter element) and seca 415

**seca 878 dr**

Doctor’s scale with customisable label

The design and the name speak a common language. The seca 878 dr is the new flat scale standard for doctors in medical practices. Your advantages include the foot-operated on/off switch and the user-friendly dual LCD display that can be read simultaneously by doctor and patient. Weighing children is simplified by activation of the mother/child function. The specially developed doctor’s scale, which is subject to very strict quality requirements in its manufacture, reliably delivers accurate data. With top quality and medical precision combined in a compact, modern design, the seca 878 dr is perfectly aligned to the needs of today’s medical practices.

- 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: customisable label seca 478 at www.seca.com/doctorscale

**New**

The low weight of only 4.2 kilograms makes mobile use accessible.

**Carrying case**

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

The custom label serves to provide individual personalisation.

The two buttons on the front side of the scale can be easily operated by foot.

**Accessories**

**seca 415**

Carrying case

**Tap-on function for weighing without turning on the scales.**
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 anodised 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.
seca 274

Wireless stadiometer – for use anywhere with display on the headpiece

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

System compatible with products of the seca 360° wireless system.

seca 264

Wireless stadiometer for permanent use, with display on the headpiece

The goal of accomplishing more in fewer steps is as important in medicine as in other fields. The stadiometer seca 264 helps make that possible. For example, the heel positioner and the seca Frankfurt Line on the headpiece ensure that the patient is in the right position and thereby contribute to obtaining accurate measurements. Height measurements can be read with a quick glance at the white backlit display on the headpiece. Wireless data transmission is made to a seca 360° wireless printer, a PC or a wireless scale.

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

System compatible with products of the seca 360° wireless system.

For seca 274 and seca 264:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support
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), backpack seca 409, carrying case seca 414 or seca 412

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

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.
secav216
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

secav203
Ergonomic circumference measuring tape with extra Waist-To-Hip-Ratio calculator (WHR)

The measuring tape seca 203 for determination of body circumference has a high-quality scale of metal used to obtain the Waist-To-Hip-Ratio (WHR). The WHR is an indirect method of determining the amount of abdominal fat tissue. The ratio allows conclusions to be drawn about the distribution of fat stores and thus contributes to a diagnosis.

- Measuring range: 0–205 cm
- Graduation: 1 mm
- Function: WHR calculator

secav206
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

secav201
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.
**seca 645**

Wireless multifunctional handrail scale

Equipped with an extremely low-level, 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 sit 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 mains adapter.

- **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
- **System compatible** with products of the seca 360° wireless system.

**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

**seca 685**

Wireless multifunctional scale

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 (80 x 84 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.

- **Capacity:** 300 kg
- **Graduation:** 100 g < 200 kg > 200 g
- **Functions:** TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, damping, SEND/PRINT
- **Version:** seca 685r with integrated RS232 interface
- **Optional:** PC interface cable seca 451 (only for seca 685r)
- **System compatible** with products of the seca 360° wireless system.

**Accessories**

**seca 451**

PC interface cable for the multifunctional and wheelchair scales seca 685r and seca 677r

The optionally available PC interface cable seca 451 (female) guarantees a reliable transmission of height and weight between a seca scale and the PC.

- **Capacity:** 300 kg
- **Graduation:** 100 g < 200 kg > 200 g
- **Functions:** TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, damping, SEND/PRINT
- **Version:** seca 685r with integrated RS232 interface
- **Optional:** PC interface cable seca 451 (only for seca 685r)
- **System compatible** with products of the seca 360° wireless system.

**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
seca 665
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. 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
- System compatible with products of the seca 360° wireless system.

seca 677
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. Its high load capacity makes the seca 677 ideal for weighing very heavy patients. 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 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 and the SEND key to transmit measurements wirelessly to a seca wireless printer or the PC.

- Capacity: 300 kg
- Graduation: 100 g < 200 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, damping, SEND/PRINT
- Version: seca 677r with integrated RS232 interface
- Optional: PC interface cable seca 451 (only for seca 677r)
- System compatible with products of the seca 360° wireless system.
With its transport castors and steering castor, the seca 657 can be manoeuvred easily.

**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 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. 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

**System compatible** with products of the seca 360° wireless system.

**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, damping, automatic switch-off
- Optional: stand for cable remote displays seca 472, second ramp seca 470

**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.

**Accessories**

**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.

**seca | service**

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.

Accessories

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

For seca 959:
- On-site seca 360° wireless installation service
- Remote or on-site EMR integration support
- Remote or on-site software support

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.

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 seated. The practical pouch seca 471 attached to the scale frame stores the mains adapter.

- Capacity: 300 kg
- Graduation: 50 g < 150 kg > 100 g < 250 kg > 200 g
- Functions: TARE, Pre-TARE, HOLD, Auto-HOLD, BMI, Auto-CLEAR, damping, automatic switch-off, SEND/PRINT

System compatible with products of the seca 360° wireless system.
The ergonomically shaped handles let you push or pull the chair scale in any direction.

**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 separably 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 < 150 kg > 100 g
- Functions: TARE, HOLD, BMI, 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.

**seca 956**
Chair scale for weighing while seated

With a capacity of 200 kg and a graduation of 100 grams, the seca 956 fulfills 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 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. Integrated lifts enable four load cells to be placed easily and effortlessly under the castors of an empty bed and the scale to be switched on. The weight of the empty bed is stored in the scale until the next time the scale is switched off. The previously determined weight of the bed (must be 250 kg or less) is deducted using the TARE function and the patient’s precise weight is determined. In order to obtain the patient’s measurements even if the power goes out, the bed scale is also equipped with a rechargeable battery. When not in use, the four bed lifts can be stored on the equipment trolley.

- Capacity: 500 kg
- Max. patient weight: 250 kg
- Maximum bed 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 by seca
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, swab and nappy scale and the extremely precise portion and diet scale for clinical nutritionists.

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

The stainless steel surface is tough and easy to clean.

The smooth food-safe surface allows easy cleaning of the bowl.
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, mains adapter, SD card reader, 1 roll of thermal paper, 1 roll of labels

System compatible with products of 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, mains adapter, SD card reader, 1 roll of thermal paper

System compatible with products of the seca 360° wireless system.
**Software**

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

With the 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:**

- 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: 1,024 x 768, High Colour (16-bit), 32-bit (recommended)

System compatible with products of the seca 360° wireless system.

**1 single location license free with every seca mBCA 515, seca mBCA 525 and seca mVSA 535**

For seca analytics 115:

- Remote or on-site installation service
- Remote or on-site EMR integration service
- Remote or on-site software support

**For an exact assessment of health status and nutritional condition of children, height, weight and BMI are compared to percentiles.**

**BMI, waist circumference and other laboratory data are used to assess the risk of coronary heart disease.**

**The proportion of fluid in the total body weight is important for prevention, diagnosis and therapy, e.g. for heart failure or kidney disease.**

**The composition and assessment of the body mass are important for the diagnosis and treatment of weight-related illnesses.**

**All examination results for each patient can be compiled into a PDF of one or more pages. The findings can be ideally prepared for a personal consultation.**

** seca service**
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 labor-intensive process of documenting examination findings is turned into a speedy and paperless matter.

System requirements:
- Version: seca 456 wa for wireless data transmission to the Welch Allyn Connex® Vital Signs Monitor (CVSM) or Integrated Wall System

**Accessories**

**seca 456**

seca 360° wireless USB adapter for data reception on PC

The wireless reception of measurements on the PC is the decisive step towards Electronic Medical Records.

**seca emr flash 101**

Software to connect seca 360° wireless products to Electronic Medical Record (EMR) systems

Simple and efficient – 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 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:
- Ports: for usage in combination with seca medical devices USB port (2.0) or serial interface (RS232)

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 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.

**seca added value**

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

**System compatible** with products of the seca 360° wireless system.
**Medical Body Composition Analyzer**

<table>
<thead>
<tr>
<th>Page 8</th>
<th>Page 12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td><strong>Technical data</strong></td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>976 x 1,251 x 828 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>36 kg</td>
</tr>
<tr>
<td>Capacity</td>
<td>150 kg</td>
</tr>
<tr>
<td>Graduation</td>
<td>50 g &lt; 150 kg &gt; 100 g</td>
</tr>
<tr>
<td>Power supply</td>
<td>mains adapter, rechargeable battery</td>
</tr>
<tr>
<td>Approval class</td>
<td>IIa</td>
</tr>
<tr>
<td>Medical Device Class</td>
<td>IIa</td>
</tr>
<tr>
<td>Interfaces</td>
<td>USB 2.0, seca 360° wireless technology</td>
</tr>
<tr>
<td>Power supply</td>
<td>mains adapter, internal rechargeable lithium-ion battery</td>
</tr>
<tr>
<td>Measurement frequencies</td>
<td>1; 2; 5; 10; 50; 100; 200; 500 kHz</td>
</tr>
<tr>
<td>Measurement method</td>
<td>8-point Bioelectrical Impedance Analysis</td>
</tr>
<tr>
<td>Measurement segments</td>
<td>right arm, left arm, right leg, left leg, right half of body, left half of body, torso</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C (SpO2)</td>
</tr>
<tr>
<td>Response time</td>
<td>&lt; 2 sec</td>
</tr>
<tr>
<td>Excess pressure limit</td>
<td>300 mmHg; automatic pressure release at 330 mmHg</td>
</tr>
<tr>
<td>Measurement range</td>
<td>pSYS: 25–280 mmHg; pDIA: 10–220 mmHg; pMAP: 15–260 mmHg</td>
</tr>
<tr>
<td>Measurement accuracy – standard deviation</td>
<td>&lt; 3.48 mmHg</td>
</tr>
<tr>
<td>Measurement accuracy – mean deviation</td>
<td>&lt; 1.19 mmHg</td>
</tr>
<tr>
<td>Measurement range</td>
<td>SpO2: 30 to 100%</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 2 Arms</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Pulse rate PR (Standard) 30 bpm to 240 bpm; PR – in motion ± 2 bpm</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Pulse rate PR (Rest) 30 bpm to 240 bpm; Pulse rate PR (Exercise) 50 bpm to 350 bpm</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Pulse rate PR – resting ± 2 bpm; PR – in motion ± 2 bpm</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>SpO2: 0,0 % to 100,0 %</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 2 Arms</td>
</tr>
<tr>
<td>Measurement range</td>
<td>SpO2: – resting 85 % to 100 % + 3 Arms; SpO2: – in motion 75 % to 100 % + 3 Arms</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±0.3 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>&gt; 39 °C ± 0.3 °C</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>&lt; 36 °C ± 0.3 °C</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>&lt; 36 °C ± 0.2 °C</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>&lt; 15 sec</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>&lt; 60 sec; Predictive (95 % of measurements) ± 0.1 °C</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>&lt; 60 sec; Predictive (95 % of measurements) ± 0.1 °C</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>303 to 217 mm</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement segments</td>
<td>right arm, left arm, right leg, left leg, right half of body, left half of body, torso</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>100 μA</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Measurement time 17 seconds</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Measurement time 30 seconds</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Memory minimum</td>
<td>512 MB RAM</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel Core i3, Intel Core i5, Intel Core i7, Intel Xeon</td>
</tr>
<tr>
<td>Hard Disk Space</td>
<td>minimum 1 GB</td>
</tr>
<tr>
<td>Memory</td>
<td>minimum 512 MB RAM</td>
</tr>
<tr>
<td>Additional HW</td>
<td>DVD drive</td>
</tr>
<tr>
<td>Ports</td>
<td>USB 2.0, seca 360° wireless technology</td>
</tr>
<tr>
<td>Display</td>
<td>12.1 (XGA), high-bright display</td>
</tr>
<tr>
<td>Resolution</td>
<td>1024 x 768, high-bright display</td>
</tr>
<tr>
<td>System compatible with</td>
<td>seca 360° wireless system</td>
</tr>
</tbody>
</table>

**Software**

<table>
<thead>
<tr>
<th>Page 10</th>
<th>Page 18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td><strong>Technical data</strong></td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>976 x 1,251 x 828 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>78 g</td>
</tr>
<tr>
<td>Capacity</td>
<td>150 kg</td>
</tr>
<tr>
<td>Graduation</td>
<td>50 g &lt; 150 kg &gt; 100 g</td>
</tr>
<tr>
<td>Power supply</td>
<td>mains adapter, internal rechargeable lithium-ion battery</td>
</tr>
<tr>
<td>Approval class</td>
<td>IIa</td>
</tr>
<tr>
<td>Medical Device Class</td>
<td>IIa</td>
</tr>
<tr>
<td>Interfaces</td>
<td>USB 2.0, seca 360° wireless technology</td>
</tr>
<tr>
<td>Power supply</td>
<td>mains adapter, internal rechargeable lithium-ion battery</td>
</tr>
<tr>
<td>Measurement frequencies</td>
<td>1; 2; 5; 10; 50; 100; 200; 500 kHz</td>
</tr>
<tr>
<td>Measurement method</td>
<td>8-point Bioelectrical Impedance Analysis</td>
</tr>
<tr>
<td>Measurement segments</td>
<td>right arm, left arm, right leg, left leg, right half of body, left half of body, torso</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Measurement time 17 seconds</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Measurement time 30 seconds</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>± 0.1 °C</td>
</tr>
<tr>
<td>Memory minimum</td>
<td>1 GB RAM</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel Core i3, Intel Core i5, Intel Core i7, Intel Xeon</td>
</tr>
<tr>
<td>Hard Disk Space</td>
<td>minimum 1 GB</td>
</tr>
<tr>
<td>Memory</td>
<td>minimum 512 MB RAM</td>
</tr>
<tr>
<td>Additional HW</td>
<td>DVD drive</td>
</tr>
<tr>
<td>Ports</td>
<td>USB 2.0, seca 360° wireless technology</td>
</tr>
<tr>
<td>Display</td>
<td>12.1 (XGA), high-bright display</td>
</tr>
<tr>
<td>Resolution</td>
<td>1024 x 768, high-bright display</td>
</tr>
<tr>
<td>System compatible with</td>
<td>seca 360° wireless system</td>
</tr>
</tbody>
</table>

**Specific details**

- **seca mBCA 525**
  - Measurement range: 1.2 kg to 10.5 kg
  - Measurement accuracy: ± 0.1 kg
- **seca mBCA**
  - Measurement range: 10.5 kg to 950 g
  - Measurement accuracy: ± 0.1 kg
- **PC software seca analytics 115**
  - Combined with seca 360° wireless measuring systems and scales
- **Smart Bucket for seca mBCA**
  - Dimensions (WxHxD): 248 x 162 x 187 mm
- **Rolling stand with basket**
  - Dimensions (WxHxD): 252 x 262 x 230 mm
- **Medical device class IIa**
- **Power supply**: mains adapter, internal rechargeable lithium-ion battery
- **Measurement method**: 8-point Bioelectrical Impedance Analysis
- **Measurement segments**: right arm, left arm, right leg, left leg, right half of body, left half of body, torso
- **Measurement accuracy**: ± 0.1 °C
- **Measurement range**: Normal: 15–30 sec; max. 60 sec; pulse
- **System compatible with**: seca 360° wireless system

**Technical data**

- **Dimensions (WxHxD)**: 976 x 1,251 x 828 mm
- **Weight**: 36 kg
- **Capacity**: 150 kg
- **Graduation**: 50 g < 150 kg > 100 g
- **Power supply**: mains adapter, internal rechargeable lithium-ion battery
- **Approval class**: IIa
- **Medical Device Class**: IIa
- **Interfaces**: USB 2.0, seca 360° wireless technology
- **Power supply**: mains adapter, internal rechargeable lithium-ion battery
- **Measurement frequencies**: 1; 2; 5; 10; 50; 100; 200; 500 kHz
- **Measurement method**: 8-point Bioelectrical Impedance Analysis
- **Measurement segments**: right arm, left arm, right leg, left leg, right half of body, left half of body, torso
- **Measurement accuracy**: ± 0.1 °C
- **Measurement range**: Normal: 15–30 sec; max. 60 sec; pulse
- **System compatible with**: seca 360° wireless system

**Software**

- **Processor**: Intel Core i3, Intel Core i5, Intel Core i7, Intel Xeon
- **Hard Disk Space**: minimum 1 GB
- **Memory**: minimum 512 MB RAM
- **Additional HW**: DVD drive
- **Ports**: USB 2.0, seca 360° wireless technology
- **Display**: 12.1 (XGA), high-bright display
- **System compatible with**: seca 360° wireless system
## Accessories for seca mVSA

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0006</td>
<td>Reusable finger clip (hard) for measuring SpO\textsubscript{2} in adults.</td>
<td>Adults</td>
<td>0.0 % – 100.0 %</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0007</td>
<td>Reusable finger clip (soft) for measuring SpO\textsubscript{2} in adults.</td>
<td>Adults</td>
<td>0.0 % – 100.0 %</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0008</td>
<td>Reusable finger clip (soft) for measuring SpO\textsubscript{2} in children.</td>
<td>Children</td>
<td>0.0 % – 100.0 %</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Application</th>
<th>SpO\textsubscript{2} measurement range</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults</td>
<td>0.0 % – 100.0 %</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>Adults</td>
<td>0.0 % – 100.0 %</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>Children</td>
<td>0.0 % – 100.0 %</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
</tbody>
</table>

### Article number

- 490 0006
- 490 0007
- 490 0008
- 490 0014
- 490 0005
- 490 0012
- 490 0016

### Technical data

#### Accessories for seca mVSA

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2} measurement range</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Article number</th>
<th>Accessories</th>
<th>Application</th>
<th>SpO\textsubscript{2}</th>
<th>SpO\textsubscript{2} accuracy</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>490 0014</td>
<td>seca mBCA 531</td>
<td>In-ear thermometer for Bioelectrical Impedance Analysis for the seca mVSA 535.</td>
<td>33 – 42 °C</td>
<td>⧤ 2 Arms (60 – 100%)</td>
<td>&lt; 0.5 kg</td>
</tr>
<tr>
<td>490 0005</td>
<td>Reusable seca sphygmomanometer cuffs available in various sizes (S-XL).</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0012</td>
<td>Extension cord for sphygmomanometer cuffs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Extension cord for seca SpO\textsubscript{2} sensors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>490 0016</td>
<td>Rolling stand for mobile use of the seca mVSA 535.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Baby scales

- **seca 757**
  - Wireless baby scale with optimised damping system.

- **seca 376**
  - Electronic baby scale with steel-shaped tray and raised LCD. With wireless data transmission.

- **seca 336**
  - Electronic baby scale with practical handle for mobile medical use.

- **seca 385**
  - Multi-purpose, electronic baby scale with detachable tray for weighing in a recumbent or standing position.

- **seca 384**
  - Multi-purpose, electronic baby and infant scale with detachable tray for weighing in a recumbent or standing position.

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

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Graduation</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 757</td>
<td>15 kg</td>
<td>2 g</td>
<td>551 x 151 x 320 mm</td>
<td>7.1 kg</td>
</tr>
<tr>
<td>seca 376</td>
<td>5 kg</td>
<td>&lt; 5 kg</td>
<td>620 x 190 x 358 mm</td>
<td>3.7 kg</td>
</tr>
<tr>
<td>seca 336</td>
<td>5 g</td>
<td>&gt; 5 g</td>
<td>638 x 115 x 320 mm</td>
<td>3.4 kg</td>
</tr>
<tr>
<td>seca 385</td>
<td>10 g</td>
<td>&gt; 10 g</td>
<td>525 x 87 x 250 mm</td>
<td>2.8 kg</td>
</tr>
<tr>
<td>seca 384</td>
<td>16 kg</td>
<td>&gt; 16 kg</td>
<td>280 x 77 x 230 mm</td>
<td>6.4 kg</td>
</tr>
</tbody>
</table>

### Accessories for baby scales

- **seca 403**
  - Cart for mobile support with customised indentations for baby scales seca 757, seca 376, seca 336, seca 385 and seca 384.

- **seca 402**
  - Cart for mobile support with customised indentations for baby scales seca 757, seca 376, seca 336, seca 385 and seca 384.

- **seca 233**
  - Measuring rod for baby scale seca 376.

- **seca 232**
  - Measuring rod for baby scale seca 336.

- **seca 418**
  - Head/foot positioner for baby scale seca 376, if no measuring rod seca 233 is mounted.

- **seca 419**
  - Head positioners for baby scale seca 336, if no measuring rod seca 232 is mounted.

- **seca 400**
  - Switch-mode mains adapter for baby scales seca 376 and seca 336.

- **seca 428**
  - Stable and roomy carrying case for the seca 385 baby scale.

- **seca 409**
  - Backpack for transport baby scales seca 385 or seca 384 together with the measuring board seca 417 or the measuring mat seca 210.

- **seca 414**
  - Case with handle and shoulder strap for electronic baby scales seca 385 and seca 384 in combination with seca 417 or seca 210.

- **seca 431**
  - Backpack to transport baby scales seca 385 and seca 384 safely and comfortably.

- **seca 413**
  - Carrying case for baby scales seca 385 and seca 384.
Paediatric measuring systems

**seca 416**
Inferiorometer with raised sides and footpiece mounted on two rails.

**seca 417**
Light and stable measuring board for mobile use.

**seca 210**
Measuring mat for babies and infants.

**seca 207**
Measuring rod with extra-wide measuring slides, Wall mounting possible.

**seca 212**
Head circumference measuring tape for babies and infants, made of non-stretch material. For measuring head circumference and symmetry.

**seca 218**
Disposable measuring tape in practical wall dispenser.

**seca 211**
Disposable measuring tape for head circumference in practical wall dispenser.

---

**Technical data**

- **Measuring range**
  - 33–100 cm
  - 10–100 cm
  - 10–99 cm
  - 0–99 cm
  - 3–59 cm
  - 0–100 cm
  - 12–59 cm

- **Graduation**
  - 1 mm
  - 1 mm
  - 5 mm
  - 1 mm
  - 1 mm
  - 1 mm
  - 1 mm

- **Dimensions (WxHxD)**
  - 1,103 x 169 x 402 mm
  - 1,110 x 115 x 333 mm
  - 1,250 x 140 x 300 mm
  - 1,047 x 120 x 286 mm
  - 25 x 1 x 663 mm
  - 20 x 1 x 1,200 mm
  - 25 x 1 x 701.5 mm

- **Dimensions box (WxHxD)**
  - 140 x 145 x 30 mm
  - 50 x 73 x 36 mm
  - 50 x 73 x 36 mm

- **Dimensions when folded (WxHxD)**
  - 577 x 115 x 333 mm
  - 120 x 140 x 300 mm

- **Weight**
  - 3.8 kg
  - 1.6 kg
  - 575 g
  - 810 g
  - 60 g (box)
  - 4 g
  - 4 g

- **Quantity in dispenser**
  - 15 pieces
  - 500 (incl. dispenser)/1,000 pieces
  - 500 (incl. dispenser)/1,000 pieces

---

**Areas of application**

- Can be mounted
  - Mobile measuring

---

**Accessories for paediatric measuring systems**

**seca 409**
Backpack to transport baby scales seca 385 or seca 386 together with the measuring board seca 417 or the measuring mat seca 210.

**seca 414**
Case for the measuring instruments seca 417 or measuring mat seca 210 together with baby scales seca 385 or seca 384.

**seca 412**
Case for infantometer seca 417.

---

**Technical data**

- **Dimensions (WxHxD)**
  - 370 x 620 x 163 mm
  - 620 x 230 x 312 mm
  - 688 x 627 x 52 mm

- **Weight**
  - 1.9 kg
  - 2.8 kg
  - 400 g
### Measuring stations and column scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 287</td>
<td>Wireless ultrasonic measuring station for height and weight with voice guidance.</td>
</tr>
<tr>
<td>seca 285</td>
<td>Electronic ultrasonic measuring station for height and weight with multi-function touch display and 50-gm graduation. With wireless data transmission.</td>
</tr>
<tr>
<td>seca 704</td>
<td>Electronic column scale with very high capacity and large platform, with BMI function. With wireless data transmission.</td>
</tr>
<tr>
<td>seca 704s</td>
<td>Wireless column scale with integrated measuring rod.</td>
</tr>
<tr>
<td>seca 799</td>
<td>Electronic column scale with BMI function, low-maintenance, easy to transport.</td>
</tr>
<tr>
<td>seca 711</td>
<td>Mechanical column scale with eye-level beam.</td>
</tr>
</tbody>
</table>

### Flat scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 635</td>
<td>Scale for heavy patients with large surface, cable-link remote control and high load-bearing capacity. With wireless data transmission.</td>
</tr>
<tr>
<td>seca 878</td>
<td>Electronic flat scale for mobile use with push buttons and double display.</td>
</tr>
<tr>
<td>seca 877</td>
<td>Robust, very light flat scale with integrated display, Tap-on automatic switch-on and mother/child function for mobile use.</td>
</tr>
<tr>
<td>seca 875</td>
<td>Robust, very light flat scale with integrated display, Tap-on automatic switch-on for mobile use.</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Graduation</th>
<th>Measuring range</th>
<th>Graduation</th>
<th>Dimensions (WxHxD)</th>
<th>Weight</th>
<th>Power supply</th>
<th>Approval class</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 287</td>
<td>300 kg</td>
<td>50 g - 100 kg</td>
<td>50 g - 100 kg</td>
<td>300 kg</td>
<td>430 x 60 x 365 mm</td>
<td>14.5 kg</td>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>seca 285</td>
<td>200 kg</td>
<td>50 g - 100 kg</td>
<td>50 g - 100 kg</td>
<td>200 kg</td>
<td>335 x 80 x 345 mm</td>
<td>4.5 kg</td>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>seca 704</td>
<td>100 kg</td>
<td>50 g - 50 kg</td>
<td>50 g - 50 kg</td>
<td>100 kg</td>
<td>288 x 60 x 278 mm</td>
<td>4.5 kg</td>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>seca 704s</td>
<td>100 kg</td>
<td>50 g - 50 kg</td>
<td>50 g - 50 kg</td>
<td>100 kg</td>
<td>288 x 60 x 278 mm</td>
<td>4.5 kg</td>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>seca 799</td>
<td>100 kg</td>
<td>50 g - 50 kg</td>
<td>50 g - 50 kg</td>
<td>100 kg</td>
<td>288 x 60 x 278 mm</td>
<td>4.5 kg</td>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>seca 711</td>
<td>100 kg</td>
<td>50 g - 50 kg</td>
<td>50 g - 50 kg</td>
<td>100 kg</td>
<td>288 x 60 x 278 mm</td>
<td>4.5 kg</td>
<td>Power supply</td>
<td></td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printer holder</td>
<td>seca 415 (for seca 635)</td>
</tr>
<tr>
<td>Measuring rod</td>
<td>seca 404 (for seca 878)</td>
</tr>
<tr>
<td>Mains adapter</td>
<td>batter, mains adapter optional</td>
</tr>
<tr>
<td>RS232 interface</td>
<td>seca 451 ( incl. dialysis interface cable)</td>
</tr>
</tbody>
</table>

### System compatible with products of the seca 360° wireless system

- seca 217
- seca 472
- seca 437
- seca 400
- seca 406
- seca 414
- seca 415
- seca 408
- seca 414
- seca 415
- seca 418
## Accessories for measuring stations, column and flat scales

<table>
<thead>
<tr>
<th>Item</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 224</td>
<td>Page 61</td>
</tr>
<tr>
<td>seca 220</td>
<td>Page 62</td>
</tr>
<tr>
<td>seca 472</td>
<td>Page 67</td>
</tr>
<tr>
<td>seca 437</td>
<td>Page 67</td>
</tr>
<tr>
<td>seca 400</td>
<td>Page 59</td>
</tr>
<tr>
<td>seca 451</td>
<td>Page 39</td>
</tr>
<tr>
<td>seca 409</td>
<td>Page 59</td>
</tr>
<tr>
<td>seca 414</td>
<td>Page 66</td>
</tr>
<tr>
<td>seca 421</td>
<td>Page 67</td>
</tr>
<tr>
<td>seca 415</td>
<td>Page 70</td>
</tr>
<tr>
<td>seca 478</td>
<td>Page 71</td>
</tr>
</tbody>
</table>

### Technical data

<table>
<thead>
<tr>
<th>Item</th>
<th>Measuring range</th>
<th>Graduation</th>
<th>Dimensions (WxHxD)</th>
<th>Cable length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 224</td>
<td>60–200 cm</td>
<td>1 mm</td>
<td>460 x 1,035 x 286 mm</td>
<td>1.85 m</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>seca 220</td>
<td>60–200 cm</td>
<td>1 mm</td>
<td>55 x 1,480 x 286 mm</td>
<td>1.1 m</td>
<td>700 g</td>
</tr>
<tr>
<td>seca 472</td>
<td>60–200 cm</td>
<td>1 mm</td>
<td>333 x 66 x 310 mm</td>
<td>1.85 m</td>
<td>7 kg</td>
</tr>
<tr>
<td>seca 437</td>
<td>60–200 cm</td>
<td>1 mm</td>
<td>43 x 35 x 73 mm</td>
<td>1.5 m</td>
<td>600 g</td>
</tr>
<tr>
<td>seca 400</td>
<td>60–200 cm</td>
<td>1 mm</td>
<td>65 x 65 x 310 mm</td>
<td>40 g</td>
<td>155 g</td>
</tr>
<tr>
<td>seca 451</td>
<td>seca 899, seca 878, seca 877 and seca 875 together with the stadiometer seca 217 and adapter element seca 427</td>
<td>1 mm</td>
<td>370 x 620 x 140 mm</td>
<td>1.5 m</td>
<td>1.8 kg</td>
</tr>
<tr>
<td>seca 409</td>
<td>seca 899, seca 878, seca 877 and seca 875 together with the stadiometer seca 217 and adapter element seca 427</td>
<td>1 mm</td>
<td>625 x 350 x 210 mm</td>
<td>1.5 m</td>
<td>2.8 kg</td>
</tr>
<tr>
<td>seca 414</td>
<td>seca 899, seca 878, seca 877 and seca 875 together with the stadiometer seca 217 and adapter element seca 427</td>
<td>1 mm</td>
<td>430 x 350 x 130 mm</td>
<td>1.5 m</td>
<td>810 g</td>
</tr>
<tr>
<td>seca 421</td>
<td>seca 899, seca 878, seca 877 and seca 875 together with the stadiometer seca 217 and adapter element seca 427</td>
<td>1 mm</td>
<td>330 x 380 x 70 mm</td>
<td>1.5 m</td>
<td>600 g</td>
</tr>
<tr>
<td>seca 415</td>
<td>seca 899, seca 878, seca 877 and seca 875 together with the stadiometer seca 217 and adapter element seca 427</td>
<td>1 mm</td>
<td>257 x 32 x 2 mm</td>
<td>1.5 m</td>
<td>2 g</td>
</tr>
<tr>
<td>seca 478</td>
<td>seca 899, seca 878, seca 877 and seca 875 together with the stadiometer seca 217 and adapter element seca 427</td>
<td>1 mm</td>
<td>257 x 32 x 2 mm</td>
<td>1.5 m</td>
<td>2 g</td>
</tr>
</tbody>
</table>
Height measuring systems

**secalogic**
- 274
- 264
- 217
- 213
- 222
- 216
- 206
- 203
- 201

Electronic stadiometer, free standing with seca Frankfurt Line and heel positioner for precise measurements. With wireless data transmission.

Electronic stadiometer for wall mounting with easy-to-clean floor mat. With wireless data transmission.

Stand-alone stadiometer for height measurement, with square, consisting of parts that fit together perfectly for transport ease.

Stand-alone stadiometer for height measurement, easily assembled for convenient transport.

Telescopic measuring rod for the wall with extra wide measuring slides and fast stop.

Mechanical stadiometer, head piece with locking screw for accuracy.

Roll-up measuring tape with wall attachment.

Ergonomic, smoothly extractable circumference measuring tape with WHR calculator to determine body fat distribution.

Stand-alone stadiometer for height measurement, easily assembled for convenient transport.

Telescopic measuring rod for the wall with extra wide measuring slides and heel stop.

Ergonomic, smoothly extractable measuring tape for determining body circumference.

**Technical data**

<table>
<thead>
<tr>
<th>Function</th>
<th>274</th>
<th>264</th>
<th>217</th>
<th>213</th>
<th>222</th>
<th>216</th>
<th>206</th>
<th>203</th>
<th>201</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOLD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WHR calculator</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User-defined zero setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlighting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acoustic signal can be activated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOLD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic calibration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automatic switch-off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEND/Auto-SEND</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRINT/Auto-PRINT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transport castors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Adapter element**
- secalogic 217

**Carrying case**
- secalogic 437
- secalogic 409
- secalogic 414
- secalogic 412

**Areas of application**
- Can be mounted on mobile measuring
- Products of the secalogic wireless system

**System compatible with**
- Accessories for height measuring systems

**Technical data**

<table>
<thead>
<tr>
<th>Dimensions (W×H×D)</th>
<th>274</th>
<th>264</th>
<th>217</th>
<th>213</th>
<th>222</th>
<th>216</th>
<th>206</th>
<th>203</th>
<th>201</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>650 g</td>
<td>1.4 kg</td>
<td>2.8 kg</td>
<td>405 g</td>
<td>660 g</td>
<td>1.4 kg</td>
<td>2.8 kg</td>
<td>405 g</td>
<td>660 g</td>
</tr>
</tbody>
</table>
# Multifunctional and wheelchair scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Accessories</th>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 645</td>
<td>Large handrail for multifunctional use, high load-bearing capacity and BMI function. With wireless data transmission.</td>
<td>-</td>
<td>Capacity: 300 kg, Graduation: 100 g, Dimensions (WxHxD): 600 x 55 x 600 mm, Weight: 25.4 kg, Power supply: Mains adapter.</td>
</tr>
<tr>
<td>seca 685</td>
<td>Electronic multifunctional scale with stable handrail and high load bearing capacity, with castor for transport ease. With wireless data transmission.</td>
<td>-</td>
<td>Capacity: 300 kg, Graduation: 100 g, Dimensions (WxHxD): 800 x 55 x 960 mm, Weight: 59.5 kg, Power supply: Mains adapter.</td>
</tr>
<tr>
<td>seca 677</td>
<td>Electronic wheelchair scale with handrail and ramp, collapsible and mobile. With wireless data transmission.</td>
<td>-</td>
<td>Capacity: 300 kg, Graduation: 100 g, Dimensions (WxHxD): 800 x 55 x 960 mm, Weight: 38 kg, Power supply: Mains adapter.</td>
</tr>
<tr>
<td>seca 665</td>
<td>Electronic wheelchair scale with extension. Flat stop-on surface and ramp, collapsible and mobile. With wireless data transmission.</td>
<td>-</td>
<td>Capacity: 300 kg, Graduation: 500 g, Dimensions (WxHxD): 800 x 55 x 960 mm, Weight: 33.4 kg, Power supply: Mains adapter.</td>
</tr>
<tr>
<td>seca 657</td>
<td>Electronic wheelchair scale with large platform for transport. With integrated transport castors. With wireless data transmission.</td>
<td>-</td>
<td>Capacity: 250 kg, Graduation: 100 g, Dimensions (WxHxD): 800 x 55 x 960 mm, Weight: 46.2 kg, Power supply: Mains adapter.</td>
</tr>
</tbody>
</table>

## Chair scales

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Accessories</th>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 959</td>
<td>Electronic chair scale with fine graduation, inclinable armrests and BMI function. With wireless data transmission.</td>
<td>-</td>
<td>Capacity: 300 kg, Graduation: 300 g, Dimensions (WxHxD): 600 x 55 x 960 mm, Weight: 27 kg, Power supply: Mains adapter.</td>
</tr>
<tr>
<td>seca 955</td>
<td>Digital chair scale with swivel arm and footrests.</td>
<td>-</td>
<td>Capacity: 250 kg, Graduation: 100 g, Dimensions (WxHxD): 600 x 55 x 960 mm, Weight: 24.5 kg, Power supply: Mains adapter.</td>
</tr>
<tr>
<td>seca 956</td>
<td>Electronic chair scale with fold up armrests and footrests.</td>
<td>-</td>
<td>Capacity: 250 kg, Graduation: 100 g, Dimensions (WxHxD): 600 x 55 x 960 mm, Weight: 24.5 kg, Power supply: Mains adapter.</td>
</tr>
</tbody>
</table>

## Bed and dialysis scale

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Accessories</th>
<th>Technical data</th>
</tr>
</thead>
<tbody>
<tr>
<td>seca 985</td>
<td>Electronic bed and dialysis scale with integrated mechanical kit and equipment trolley.</td>
<td>-</td>
<td>Capacity: 250 kg, Graduation: 100 g, Dimensions (WxHxD): 600 x 55 x 960 mm, Weight: 27 kg, Power supply: Mains adapter.</td>
</tr>
</tbody>
</table>
Organ, swab and nappy scales

- **seca 856**
  - Organ, swab and nappy scales with protected electronics for precise determination of net weight.
  - **Technical data**
    - **Capacity**: 3 kg
    - **Graduation**: 1 g or 2 kg
    - **Dimensions (WxHxD)**: 265 x 53 x 205 mm
    - **Weight**: 1.7 kg
    - **Power supply**: Batteries
    - **Accessories**: TARE/Pre-TARE

Digital portion and diet scales

- **seca 852**
  - Digital portion and diet scale with perfect fitting bowl for safe storage, rapid graduation.
  - **Technical data**
    - **Capacity**: 3 kg
    - **Graduation**: 1 g
    - **Dimensions (WxHxD)**: 210 x 143 x 210 mm
    - **Weight**: 710 g
    - **Power supply**: Batteries
    - **Accessories**: TARE

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)**: 210 x 140 x 210 mm
    - **Graduation**: 1 g
    - **Capacity**: 3 kg
    - **Power supply**: Mains adapter
    - **Print speed**: 48 mm/sec

- **seca 466**
  - seca 360° wireless printer for reception, analysis and printing of measurements on thermal paper.
  - **Technical data**
    - **Dimensions (WxHxD)**: 265 x 53 x 265 mm
    - **Graduation**: 1 g
    - **Capacity**: 5 kg

Software

- **seca analytics 115**
  - Medical PC software for diagnostic assistance.
  - **System requirements**
    - **Supported operating systems**: Windows® 10, Windows® 8.1, Windows® 8, Windows® 7 (SP1), Windows® Vista® (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008
    - **Processor**: 1.2 GHz or higher
    - **Memory**: Minimum 1 GB
    - **Hard Disk Space**: Minimum 512 MB RAM
    - **Ports**: USB port (2.0) or serial interface (RS232)
  - **Display**: High Colour (16-bit), 32-bit recommended

- **seca emr flash 101**
  - Software to connect seca 360° wireless products to Electronic Medical Record (EMR) Systems.
  - **System requirements**
    - **Supported operating systems**: Windows® 10, Windows® 8.1, Windows® 8, Windows® 7 (SP1), Windows® Vista® (SP1, SP2), Windows® Server 2008 R2 and Windows® Server 2008
    - **Processor**: 1.2 GHz or higher
    - **Memory**: Minimum 1 GB
    - **Hard Disk Space**: Minimum 512 MB RAM
    - **Ports**: USB port (2.0) or serial interface (RS232)
  - **Display**: High Colour (16-bit), 32-bit recommended

Accessories for wireless printers

- **seca 465**
  - **Technical data**
    - **Dimensions (WxHxD)**: 58 x 64 x 64 mm
    - **Weight**: 140 g
  - **Included with printer**
    - 1 roll of thermal paper

- **seca 466**
  - **Technical data**
    - **Dimensions (WxHxD)**: 57 x 59 x 59 mm
    - **Weight**: 1100 g
  - **Included with printer**
    - 1 roll of labels

Accessories for software

- **seca 456**
  - **Technical data**
    - **Dimensions (WxHxD)**: 85 x 23 x 10 mm
    - **Weight**: 11 kg
  - **Included with printer**
    - USB adapter for data reception on PC

- **seca 456 wa**
  - **Technical data**
    - **Dimensions (WxHxD)**: 85 x 23 x 10 mm
    - **Weight**: 11 kg
  - **Included with printer**
    - USB adapter for data reception and transmission to a Welch Allyn CDM4 or Integrated Wall System.
### seca technical terms – a brief explanation.

#### Measuring systems and scales:

| TARE function | 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 disregarded at the next weighing. |
| Pre-TARE function | 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. |
| BMIF—Breast-Milk-Intake-Function | 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). |
| Mother/child-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. |
| HOLD, Auto-HOLD | 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. |
| BM | The Body Mass Index correlates height and weight to one another. A tolerance zone considered to be ideal from a health point of view is between 18.5 and 24.9. |
| BFR | The Body Fat Rate compares the patient’s percentage of fat with an ideal value. Body height and weight are the basis of calculation; extra consideration is given to gender. |
| Patient data input | Data such as gender, age and PAL (Physical Activity Level) can be entered via the input key on the multi-function touch display of the seca 284. Together with the height and weight measurements, the data is wirelessly transmitted to the seca 380 wireless printer, where it is used to calculate the resting energy expenditure and total energy expenditure or percentile for children and teenagers. |
| CLEAR, Auto-CLEAR function | 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 after five minutes. |
| Limit value function | For effective monitoring of patients, one can preset a weight limit and an alarm rings 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. |
| RESET function | The RESET function restores the factory settings. |
| PRINT-, Auto-PRINT-function | At the press of a button, all measurements and input data are wirelessly transmitted to receive-ready devices such as a scale with a corresponding BMI function, a wireless printer, a PC with the software seca arm flash 101 or software seca analytica 115. When the Auto-SEND function is activated, the SEND function is automatically triggered when the weight on the scale has stabilised or height measurements have been confirmed. |
| PRINT-, Auto-CLEAR function | With the PRINT function the measurements and input data are wirelessly transmitted to a seca 380 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 seca mBCA and seca mVSA:

| mBCA | Medical Body Composition Analyzer: a device that provides a medically precise measurement of a person’s body composition. |
| BIA | Biostatic Impedance Analysis: a method of analysing 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/height in m²). |
| mVSA | Medical Vital Signs Analyzer: A device that measures the vital parameters of blood pressure, SpO₂, pulse, temperature and, by means of a measuring mat, body composition (Biostatic Impedance Analysis). |
| So₂ | Pulse oximetry is used to measure blood oxygen saturation and pulse rate. The non-invasive method employs a finger-tip sensor. |
| HB | Hemoglobin: the oxygen-carrying protein in red blood cells. |
| NIBP | Non-invasive blood pressure measurement: the oscillatory measurement method measures blood pressure by means of a cuff placed around the upper arm or thigh. |

---

*Sebra wurde mit den dual System recycling Kennzeichnung.*

---

The products in this catalog bearing the symbol (CE) 123 and/or (CE) 103 fulfill the applicable requirements of directive 93/42/EEC on medical devices or directive 2014/30/EU on non-automatic weighing instruments. seca scales with this symbol comply with the stringent quality and technical requirements applicable to calibration scales. Scales bearing this symbol fulfill the applicable requirements of directive 93/42/EEC on medical devices.

The products in this catalog bearing the symbol (CE) 123 and/or (CE) 103 fulfill the applicable requirements of directive 93/42/EEC on medical devices. Scales bearing this symbol fulfill the applicable requirements of directive 93/42/EEC on medical devices.
At seca, we have been understanding medicine since 1840. 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 design

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

Progress

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

International outlook

The brand of the medical field.

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 design

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

Progress

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

International outlook

The brand of the medical field.
seca and art

See the world through our eyes.

Push the boundaries, 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. That was and is precisely why art has grown into an important source of inspiration over our 176 years of existence. It brings up new questions, leads to new perspectives, and expands horizons – for our products too. We would like to have you participate in this process. In 2009, for instance, media artist Christina Lissmann created an image portfolio for seca that shows our products in a limitless fantasy world. In the current seca art project the renowned photographic artists, Barbara Metz and Eve Racine, are dealing with balance in the body. Without it, the body falls ill – balance is recovered in the end with the aid of seca. The human body is illustrated in an abstract and mechanical yet also playful and lively way. Welcome to the inspiring, limitless world of art. Welcome to seca.