3. INSTALLING THE BIKES TO THE BRAZIL

4. ATTACHING THE WIRELESS HEART RATE TRANSMITTER

5. START TRAINING

6. BATTERY CHARGE / LOAD

7. WHEEL SIZE CHART

8. LOAD BATTERY / ROX 10.0 GPS

9. FIRST WAKE UP

ROX 10.0 GPS INSTALLATION ON THE BIKE

1. Installation of the bracket and sensor

2. Wake up: ROX 10.0 GPS

- Press the key [ to wake it up. Press [ to change your language.

- Select your language with the keys [ and press [.

- Press the key [ to return to the Main Menu.

3. Download the instruction manual from www.sigmasport.com or load it from the cd rom.

4. Pairing the sensors with the ROX 10.0 GPS

- Before using the transmitters, they have to be paired with the ROX 10.0 GPS.

- To pair a sensor, it must be activated. (Use the magnet at ANT+ Speed sensor and ANT+ Cadence sensor).

- Please connect to Sections 4 Bike 1 - 3 + Totals for your language.

5. Pairing the sensors with the ROX 10.0 GPS

- For the Wireless, “Search” will be displayed, then the ID of the transmitter appears. The pairing process is complete when the sensor can be used in training. Go back to the main menu to enter the training mode.

6. Install transmitters

- Rear sensors should be installed before using the transmitter, they have to be paired with the ROX 10.0 GPS.

- Select your language with the keys [ and press [.

- Press the key [ to return to the Main Menu.

7. WHEEL SIZE CHART

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Note: Load completely before you start using this device.
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1 Functions and contents

1.1 Foreword

Thank you for choosing a SIGMA SPORT bike computer. Your new ROX 10.0 GPS will be a reliable companion for years to come. To familiarize yourself with and learn how to use the many functions of your new bike computer, please read these operating instructions carefully.

Enjoy the ride with your new ROX 10.0 GPS!

The ROX 10.0 GPS is a GPS bike computer that provides you with a broad range of information both during and after your rides:

- Speed, time, distance, power and position, altitude, incline, heart rate, intensity zones, and much more.
- Download all information to a PC or Mac so that you can view and analyze your ride data.
- Plan tracks with DATA CENTER 3.1.

1.2 Contents

| ROX 10.0 GPS Black or White bike computer | CR2450 twist-lock bracket |
| USB charger (5V, 1A) | USB type A to micro-B cable |
| Attachment materials | ROX 10.0 GPS quick start guide |
| DATA CENTER 3.1 on CD (including operating instructions) |
1.2.1 Optional/Additional accessories

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<th>ANT+ cadence transmitter*</th>
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<td>COMFORTEX+ textile belt*</td>
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<tr>
<td><img src="image3" alt="ANT+ heart rate transmitter" /></td>
<td><img src="image4" alt="COMFORTEX+ textile belt" /></td>
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<tr>
<td>Attachment materials*</td>
<td></td>
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* Included with ROX 10.0 GPS complete set only

1.3 ROX 10.0 GPS functions

The ROX 10.0 GPS is a versatile bike computer. Thanks to its five navigation functions, nine bicycle, nine heart rate, eight performance, and five altitude measuring functions, as well as several other functions, the ROX 10.0 GPS is the perfect companion for any ambitious cyclist. To measure cadence, power, and heart rate, you need the appropriate accessories (depending on the set).

All current values – current speed, current altitude, current heart rate, current cadence, and current incline – can be easily viewed on the large display.

The ROX 10.0 GPS is more than a classic bike computer. It features three bike profiles, a configurable automatic start/stop function, and three different altitude calibration methods.

1.3.1 ANT+ speed transmitter (optional accessory)

Use the ANT+ speed transmitter to precisely determine your speed and trip distance regardless of GPS signal quality. An ANT+ speed transmitter can also be used to automatically detect different bike profiles.

1.3.2 ANT+ heart rate transmitter (optional accessory)

Use the ANT+ heart rate transmitter to precisely tailor your training. The heart rate zones and intensity zones will keep you on track toward reaching goals.

1.3.3 ANT+ cadence transmitter (optional accessory)

The ANT+ cadence transmitter enables you to see your cadence at all times. The cadence transmitter is also required to calculate your power using the power formula.
1.3.4 GPS transmitter

The integrated GPS transmitter determines your current speed and distance ridden. When the ROX 10.0 GPS is switched on, it automatically searches for GPS satellites. When indoors, you may not be able to receive GPS satellite signals, or those received may be weak. Move outdoors for better satellite reception or use the optionally available ANT+ speed transmitter.

1.3.5 Favorites

Favorites A & B allow you to personalize your ROX 10.0 GPS.

Select up to 28 functions that are most important to you during a ride. Don’t worry, the ROX 10.0 GPS will record all functions in the background for post ride analysis.

This reduces the amount of “clicking” and lets you focus on your ride.

1.3.6 PC /Mac interface

The ROX 10.0 GPS can be connected to a PC or Mac. The micro USB cable supplied can be used to charge the ROX 10.0 GPS and transfer data between your computer and the ROX 10.0 GPS.

You can also configure the settings for the ROX 10.0 GPS on the computer and then transmit them to the bike computer. This enables you to quickly and easily configure your ROX 10.0 GPS without having to navigate through all the menu levels. Before starting, install the Data Center software from the CD supplied. Keep an eye out for regular updates online.
2 Attaching the ROX 10.0 GPS and initial use

2.1 Attaching the bracket

- Determine whether you want to attach to the handlebars or stem.
- Remove the yellow foil.
- Please bracket on handlebar or stem and attach using either cable ties (permanent attachment) or the O-rings.

Detailed attachment information can be found in the quick start guide provided.

2.2 Before initial use

Fully charge the ROX 10.0 GPS:
Charge the device using the micro USB cable and the USB port on your PC or use the wall charger supplied. The process takes approximately three hours.
On the back of your ROX 10.0 GPS, lift the rubber plug to expose the micro USB port.

2.3 Initial use

1. Press and hold the \(\text{ENTER}\) button for five seconds.
2. Press \(\text{ENTER}\) to change the language.
3. Now press the \(\uparrow\) and \(\downarrow\) buttons to select your desired language then press \(\text{ENTER}\).
4. Configure the remaining settings using the same method.

2.4 Pairing the transmitters with the ROX 10.0 GPS

To use the transmitters, they must be paired with the ROX 10.0 GPS.
Information on how to pair the transmitters can be found under “ANT+ pairing” in section ‘10.3 Bike 1–3 & totals’.
2.5 Synchronizing the transmitters

To synchronize the transmitters, the ROX 10.0 GPS must be switched on and in training mode.

Once synchronization is complete, the respective values appear on the ROX 10.0 GPS’s top display segment in "Bikecomputer" view mode.

2.5.1 Synchronizing the speed

There are two options for synchronizing the speed:

- Start cycling – the receiver usually synchronizes with the transmitter after five wheel rotations.
- Spin the wheel until the current speed appears on the display.

2.5.2 Synchronizing the cadence

There are two options for synchronizing the cadence:

- Start cycling – the receiver usually synchronizes with the transmitter after five pedal rotations.
- Turn the pedals until the current cadence appears on the display.

2.5.3 Synchronizing the chest belt

Slightly moisten the electrodes and put on the chest belt. Move into the vicinity of the ROX 10.0 GPS or get onto your bike. The ROX 10.0 GPS usually synchronizes with the chest belt in less than 10 seconds.

The current heart rate then appears on the display.
3 Menu tree

Training

Load track
- Driven tracks
- Stored tracks

Memory
- Current tour
- Stored tours
- Total values
  - Bicycle
  - Heart rate
  - Time
  - Power
  - Temperature
  - Altimeter
  - Uphill
  - Downhill
  - Laps
  - Show track
  - Graph. analysis

Tour 1...
- Delete tour
- Bicycle
- Heart rate
- Time
- Power
- Temperature
- Altimeter
- Uphill
- Downhill
- Laps
- Show track
- Graph. analysis

Status info
- Battery
- GPS signal
- Memory

Extras
- Stopwatch
- Countdown
- Compass

Settings
- Scale unit
- Device
- Bike 1–3 & totals
- Altitude
- User
- Intensity zone
- Target zone
- Power target zone
- GPS settings
- Favorites
- Firmware update
- Factory settings

www.sigmasport.com ROX 10.0
4 Operating concept

4.1 ROX 10.0 GPS navigation principle

The ROX 10.0 GPS has up to seven menu levels. When navigating through the ROX 10.0 GPS menus and submenus, you can use the tree diagram in section '3 Menu tree' as a guide.

The navigation bar at the top of the ROX 10.0 GPS screen will help guide you through the menus. The possible functions of the BACK and ENTER buttons are also displayed in the navigation bar:

- Go to the next level down (ENTER/SELECT/EDIT)
- Go back to the next level up (BACK)
- Go to the next editable position (NEXT)
- Activate or deactivate a function (ON/OFF)
- Scroll forward or backward within the menu levels ( and )
- Confirm/save a setting (SAVE).
4.2 Button functions

**Back/Stop button**
- Press this button to exit the submenus or stop a current data log.
- Press and hold the button in training mode to reset all data and save the current trip.

**Start/Lap button**
- Press this button to start a data log. During a data log press this button to start a new lap.

**Minus button**
- Scroll backward in a menu level ...
- or lower/change the value displayed ...
- or zoom out in Track/Altitude View.

**Plus button**
- Scroll forward in a menu level ...
- or increase/change the value displayed ...
- or zoom in in Track/Altitude View.

**Enter button**
- Press this button to access the submenus or zoom the top display data (HR, Alti, Cad, Slope).
- Press and hold the button to turn the RoX 10.0 GPS on and off.

**Mode button**
- Press this button to switch between the “Bikecomputer”, “Track View” and “Altitude View” modes in the training menu.

**Shortcut**

Only in training mode

Simultaneously press the **BACK** and **ENTER** buttons to open the short menu.
4.3 Operating concept for the remaining menu

All settings are done following the same procedure:

- Press the and buttons to select the desired menu.
- Open this menu by pressing ENTER.
- Navigate to the respective unit using and and press ENTER to edit it.
- The value to be edited has a black background and can be modified by pressing the and buttons.
- Save your changes by pressing ENTER.

4.3.1 Top display segment

The top line of the upper display segment will change depending on which menu you are in. The possible functions of the BACK and ENTER buttons will be displayed to assist you.

The second line of the top display segment always shows which menu/submenu you are currently in.

4.3.2 Bottom display segment

The submenus and programmable values are displayed in the bottom display segment.

Press the and buttons to select the desired menu/submenu.
Press ENTER to open the menu/submenu.
4.4 Training menu operating concept & display structure

The ROX 10.0 GPS’s training menu is divided into three view modes:

While training, you can track your current training values using the three modes “Bikecomputer”, “Track View” and “Altitude View”. Press the MODE button to switch between the different modes.

4.4.1 “Bikecomputer” view mode

The “Bikecomputer” view mode is divided into three display segments.

4.4.1.1 Top display segment

The first line displays the following values:

- Battery status indicator or battery charging
- GPS signal available

Beneath these, four current values are displayed:

- Current heart rate (only if you are wearing the chest belt)
- Current cadence (only if the cadence transmitter has been attached)
- Current altitude (permanent)
- Current incline (permanent)

Press ENTER to zoom in so that only one of the four functions is displayed. Press ENTER to scroll through each current value and return to the multi-view screen.
4.4.1.2 Middle display segment

This displays your current speed plus other icons:

- Bike I/bike II/bike III icon
- Current to average speed comparison
- Indicates that the speed signals are coming from the GPS signal
- Preset unit (km/h or mph)
- Exercise time active
- Training countdown active [see section ’10.2 Device’]

4.4.1.3 Bottom display segment

This segment displays up to 10 individually programmable values [see section ’10.10 Favorites’].

Press the " and " buttons to display the individual values.

4.4.2 “Track View” mode

In “Track View” mode, up to six individually programmable values [see section “10.10 Favorites’] are displayed in the upper display segment. Press the "ENTER" button to navigate through the values.

Your route is graphically displayed in the bottom segment. Press the " and " buttons to zoom the display.

4.4.3 “Altitude View” mode

In “Altitude View” mode, up to six individually programmable values [see section “10.10 Favorites’] are displayed in the upper display segment. Press the "ENTER" button to navigate through the values.

Your altitude profile is graphically displayed in the bottom segment. Press the " and " buttons to zoom the display.
5 Training with the ROX 10.0 GPS

5.1 Favorites A + B

The functions/values that are most important to you can be stored under favorites A and B. This enables you to quickly and easily access the functions you want (speed, altitude, heart rate, cadence, incline, and the favorite functions) while riding. Up to 28 functions can be stored in each of the favorites.

Once you set favorites A and B they cannot be changed during a training session (see section '10.10 Favorites'). Ten functions per favorite can be specified for the “Bikecomputer” view mode, and six for each of the “Track View”, “Altitude View” and “Lap Message” view modes.

Before each ride, choose favorites A or B using the short menu.

Preset functions for favorite A in “Bikecomputer” view mode:

1. Trip distance
2. Exercise time
3. Average speed
4. Max. speed
5. Max. incline uphill
6. Trip distance uphill
7. Altitude ascent
8. Altitude profile
9. Temperature
10. Clock

Preset functions for favorite B in “Bikecomputer” view mode:

1. Trip distance
2. Exercise time
3. Lap time
4. Average speed
5. Power
6. Average heart rate
7. Intensity zone
8. Altitude ascent
9. Temperature
10. Clock

Preset functions for favorite A in “Track View” mode:

1. Current speed
2. Trip distance
3. Time of arrival
4. Distance to destination
5. GPS accuracy
6. Driving direction

Preset functions for favorite B in “Track View” mode:

1. Current speed
2. Trip distance
3. Current heart rate
4. Current power
5. GPS accuracy
6. Driving direction
5.2 Calibrating the altitude IAC+

The ROX 10.0 GPS’s altitude measurement is determined by barometric air pressure. Any change to the weather means a change to the air pressure, which can lead to a change to your current altitude. To offset these changes in air pressure, you must enter a reference altitude into the ROX 10.0 GPS (process known as calibration).

The ROX 10.0 GPS offers three types of calibration (only one has to be used):

1. **Home altitude 1–3**
   The home altitude is a known altitude of your start location. You can program up to three different home altitudes.

2. **Current altitude**
   The current altitude is the altitude at your current location. The current altitude is used if you are out on your bike and altitude information is provided.

3. **Air pressure at sea level**
   If you are at an unknown altitude, you can enter the “air pressure reduced to sea level” to calculate the current altitude. The air pressure reduced to sea level can be found online (e.g. www.meteo24.de), in the daily newspaper, or at airports.
Altitude points list

To prevent weather-induced changes of altitude, the device stores “altitude measurement points”. Every time the user calibrates the barometric altitude, the ROX 10.0 GPS stores the location. Whenever the user returns to this location (within a 30 m radius), the altitude is automatically calibrated.

The altitude measurement points from the IAC+ altitude calibration are stored in the altitude points list (see ‘10.4 Altitude’). You can also delete individual altitude measurement points from this list.

CAUTION:

The air pressure at your weather station is the air pressure at the measurement site and not the air pressure reduced to sea level! An opening below the button on the ROX 10.0 GPS is used to measure the air pressure. This opening must not be covered. Do not insert sharp objects into the measurement hole!

5.3 Power calculation or measurement

The ROX 10.0 GPS can calculate (!) the power using of several parameters or power values sent via an ANT+ compatible power meter. Please choose between power meter and formula under Settings/Device/Power Meter or Formula.

5.3.1 Power calculation

Power is calculated (!) using speed, cadence, incline, bike weight, bike type, rider position, body weight, shoulder width and body height. The wind speed is not considered.

Power can only be calculated when a cadence transmitter is used.

The power values displayed are approximations and are calculated given average wind speed and average road conditions.

5.3.2 Power measurement

The ROX 10.0 GPS is fully compatible with ANT+ compatible power meters (e.g. SRM power meter – www.srm.de). These power meters measure power using forces [e.g. on the pedals] and are independent of external influences.
5.4 Intensity zones

The arrow below the bar chart indicates which intensity zone you are currently training in. Intensity distribution is also continuously calculated and displayed throughout your training session.

Athletes can set their intensity zones themselves (see section ‘10.6 Heart rate intensity zones’). In the default setting, the intensity zones are based on common German definitions of the training zones:

- Intensity zone 1 = 60–70% HRmax (e.g. BE1)
- Intensity zone 2 = 70–80% HRmax (e.g. BE1/2)
- Intensity zone 3 = 80–90% HRmax (e.g. BE2 or development zone)
- Intensity zone 4 = 90–100% HRmax (e.g. CE or peak zone)

5.5 Training

5.5.1 Using the short menu to select training settings

You can use the short menu to select the following basic settings for your training:

- Altitude
- Favorites A or B
- Load track
- Track settings (reverse track [on/off], same track back [on/off], and track direction [driving direction/north])
- Target zone alarm
- Auto pause [on/off]
- Altitude [home altitude 1–3, sea level calib., manual calib.]
  
  Information about altitude settings can be found in section ‘5.2 Calibrating the altitude IAC+’.
- Bike selection
- Calibrate compass

To access the short menu, simultaneously press the BACK and ENTER buttons in training mode.

Press the ▲ and ▼ buttons to select the desired functions and open or confirm these by pressing ENTER.
Functional description of track settings:

1. Reverse track [on/off]
   Use this function to reverse the direction of a tour that you have stored. If, for example, you have downloaded a tour to your ROX 10.0 GPS from the Internet and have switched the start and finish locations, you can directly reverse the tour on the ROX 10.0 GPS. If you do not do this, your device will indicate that you are riding in the wrong direction.

---

**Note**

“Reverse track” must be activated before a track is loaded to reverse the track!

---

2. Same track back [on/off]
   Use this function to return along the same track that you have just ridden.

3. Track direction (driving direction/north)
   Use this function to define the type of direction indication. Driving direction means that the route is always in front of you. North means that the track is always pointing north and the arrow rotates on the display in accordance with your ride direction. This means that if you are cycling south, the arrow on the display will point down.

5.5.2 Starting logs

To start logs for your training session, press the **START** button. A brief confirmation message “Exercise time started” is displayed and the “stopwatch active” icon appears in the “Bikecomputer” view mode.

5.5.3 Stopping/ending logs

To end logs for your training session, press the **STOP** button. A brief confirmation message “Exercise time stopped” is displayed and the “exercise time active” icon disappears from the “Bikecomputer” view mode.

You can continue the log at any time by pressing the **START** button.

5.5.4 Saving a log

To reset all values and save the log, press and hold the **STOP** button for five seconds.

The tour evaluation data can be found under the menu item “Memory/Stored Tours”.

5.5.5  **Auto pause**

The auto pause function can be activated and deactivated in the short menu.

**Auto pause function activated:**

You can start training as soon as you have pressed Start. The ROX 10.0 GPS waits until it can record a speed of more than 2.2 km/h before starting to record the training session. From then on, the activated auto pause function ensures that the exercise time pauses for speeds of less than 2.2 km/h ("Auto Pause“ appears on the display) and restarts at speeds of over 2.2 km/h (auto start).

---

**Note:**

If you have stopped the device manually, it will no longer automatically restart; you must also manually restart it.

---

**Auto pause function deactivated:**

The exercise time starts as soon as you have pressed **Start** and stops when you press **Stop**. This enables you to record your heart rate even when resting, for example.

---

**Note:**

The exercise time is linked to the logging. If the exercise time is stopped, no data is recorded for further analysis. If the auto pause function is activated, the exercise time is identical to the trip time. If the auto pause function is deactivated, the trip time and the exercise time differ.
5.5.6 Displaying training parameters

During the training session your current training parameters can be displayed using the three modes “Bikecomputer”, “Track View” and “Altitude View” and the preset values or values defined in the favorites.

All training parameters for the current ride are stored under the menu item “Memory/Current Tour” and can be used to evaluate the training session after the tour.

5.5.7 Lap Message view

You can use the lap function to start a new lap (or interval) after riding a certain distance or reaching a certain position. This enables you to compare your performance on different sections with similar distances.

A training log must be started for the lap function to operate.

Press the LAP button to end the current lap and automatically start a new one. The "Lap Message" view appears for eight seconds, displaying all the key values for the last lap. The display then jumps back to the previous view mode.

The preset lap functions can be changed (see ’10.10 Favorites’).

Note

The analysis data for the individual laps can be found under the menu path “Memory/Current Tour or Stored Tours [section ‘7.3.9 Tour data – laps’].
5.6 Training functions

5.6.1 Zoom function in Track View and Altitude View
Press the ↓ and ↑ buttons to select the optimum zoom setting.

5.6.2 Same track back function
With the “same track back” function, the ROX 10.0 GPS guides you back to your start location.

5.6.3 Track found message
The “track found message” appears if you ride along a previously loaded track.

5.6.4 Off-track alarm
The "off-track alarm" helps you stay on route and is triggered if you leave it.

5.6.5 Wrong direction message
The ROX 10.0 GPS detects if you are riding in the wrong direction and indicates this message.

If a tour has been incorrectly stored (start and end points mixed up), you can use the “Reverse track” function (see section ‘5.5.1  Using the short menu to select training settings’) to directly reverse the tour on the ROX 10.0 GPS.

Note
“Reverse track” must be activated before a track is loaded to reverse the track!

5.6.6 Waypoint alarm
The waypoint alarm reminds users that they have reached an interesting waypoint that was marked in advance.

5.7 Analysis

The analyses for the current tour, stored tours, and total values can be found under the menu item “Memory”.

6 Load track

This function enables you to select, start, display, and delete driven or stored tracks.

Note

Information on the memory capacity of the tracks and points can be found in section '6.1.1 Track data memory'.

6.1 Memory capacity for track data

The memory for the training sessions can store up to 100 training files. The maximum storage period also depends on the log interval selected.

The log times in hours per log interval can be seen in the table:

<table>
<thead>
<tr>
<th>Log interval</th>
<th>Log time in hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 sec</td>
<td>8:12:00</td>
</tr>
<tr>
<td>2 sec</td>
<td>16:25:00</td>
</tr>
<tr>
<td>5 sec</td>
<td>41:04:00</td>
</tr>
<tr>
<td>10 sec</td>
<td>82:08:00</td>
</tr>
<tr>
<td>20 sec</td>
<td>164:16:00</td>
</tr>
<tr>
<td>30 sec</td>
<td>246:24:00</td>
</tr>
</tbody>
</table>

The log interval can be set at the menu path "Settings/Device" (see section '10.2 Device').

6.1.1 Track data memory

The track memory can store up to 50 tracks with a total of up to approx. 42,000 track points.

A maximum of 384 waypoints can be stored. You can also mark special points of interest (POI) located near the route as waypoints.
6.2 Driven tracks

This area displays all the tracks you have recorded. Information on how to delete driven tracks can be found in section ‘7.2 Stored tours’.

After selecting a track by pressing the \textbf{ENTER} button, you have three options:

- Start track
- Show track
- Show altitude profile

6.2.1 Start track

Select “Start track” to ride the selected track. Once you have selected “Start Track” the display will automatically switch to the training menu in “Track View” mode and your ride will begin. Follow the route shown on the display.

Press the \textbf{BACK} and \textbf{BACK} buttons to zoom in and out.

6.2.2 Show track

Select “Show track” to display the route for the selected tour. Press the \textbf{BACK} and \textbf{BACK} buttons to zoom in and out.

Press \textbf{BACK} to return to the driven tracks menu.

6.2.3 Show altitude profile

Use “Show altitude profile” to view a graphical representation of the route’s altitude profile.

Press \textbf{BACK} to return to the driven tracks menu.
6.3 Stored tracks

Note
Information on the memory capacity for tracks and waypoints can be found in section ‘6.1.1 Track data memory’.

Here you can locate the tracks that you have transferred to the ROX 10.0 GPS with the help of SIGMA Data Center.

Data Center enables you to download, modify, and store tracks from other users or plan your own tracks on an interactive map. These tracks can be loaded onto the ROX 10.0 GPS. Further information about Data Center can be found in the Data Center instructions.

After selecting a track by pressing the **ENTER** button, you have four options:

- Start track
- Show track
- Show altitude profile
- Show details

**6.3.1 Start track**
Select “Start track” to cycle the selected track.

Once you have selected “Start track” by pressing **ENTER**, the track starts. The display automatically switches to the training menu in “Track View” mode. Follow the route shown on the display.

**6.3.2 Show track**
Select “Show track” to display the route for the selected tour.

Press **BACK** to return to the stored tracks menu.
6.3.3 Show altitude profile

Select “Show altitude profile” to view a graphical representation of the trip’s altitude profile.

Press BACK to return to the stored tracks menu.

6.3.4 Show details

Select “Show Details” to see the following:

- Trip distance
- Altitude ascent ↑
- Ride Rating
7 Memory

7.1 Current tour

Current tour provides all values for your current tour. These are divided into 11 sub-items (see section ‘7.3 Stored data’).

7.2 Stored tours

Stored tours provides an overview of your stored/saved tours.

Use the ◀ and ▶ buttons to select the tour for which you want to view then press ENTER.

All the values for the selected tour are displayed. These are divided into 11 sub-items (see section ‘7.3 Stored data’).

You can delete individual tours. Press the ◀ and ▶ buttons to select “Delete tour!” then press ENTER.

The question “Are you sure?” appears. Press the ENTER button again to delete the tour.
7.3 Stored data

All trip data is stored per trip.

The data is divided into the following 11 areas:

1. Bicycle 2. Heart rate
3. Time 4. Power
5. Temperature 6. Altimeter
7. Uphill 8. Downhill
9. Laps 10. Show track
11. Graph. analysis

Note:

Certain values (heart rate, power, work, cadence) can only be determined when using the ANT+ heart rate transmitter, ANT+ cadence transmitter, and/or ANT+ power meter.
7.3.1 Tour data – bicycle
The bicycle menu displays the following bike values:
- Average speed
- Max. speed
- Trip distance
- Average expansion
- Average cadence
- Max. cadence

7.3.2 Tour data – heart rate
The heart rate menu displays the following values:
- Average heart rate
- Max. heart rate
- Average % of the max. heart rate
- Calories
- Time in target zone
- Time at intensity 1
- Time at intensity 2
- Time at intensity 3
- Time at intensity 4

7.3.3 Tour data – time
The time menu displays the following values:
- Start date
- Start time
- Exercise time
- Trip time

Note:
Reset all data prior to the start of a ride to ensure proper start date and time

7.3.4 Tour data – power
The power menu displays the following values:
- Average power
- Max. power
- Work (kJ)
- Average power in W/kg
- Time in target zone
7.3.5  Tour data – temperature

The temperature menu displays the following values:
- Average temperature
- Min. temperature
- Max. temperature

7.3.6  Tour data – altimeter

The altimeter menu displays the following values:
- Average altitude
- Average incline
- Average rise rate

7.3.7  Tour data – uphill

The uphill menu displays the following values:
- Altitude ascent ↑
- Max. altitude
- Trip distance ↑
- Trip time ↑
- Average speed ↑
- Average rise rate ↑
- Max. rise rate ↑
- Average incline ↑
- Max. incline ↑
- Average expansion ↑

7.3.8  Tour data – downhill

The downhill menu displays the following values:
- Altitude descent ↓
- Trip distance ↓
- Trip time ↓
- Average speed ↓
- Average rise rate ↓
- Max. rise rate ↓
- Average incline ↓
- Max. incline ↓
- Average expansion ↓
7.3.9 Tour data – laps

The lap menu displays the following values:

- Average lap time
- Average lap distance
- Lap
- Lap 01, 02, ... (average speed, distance)

The individual values for each lap can be found in the respective submenus:

1. Lap time
2. Time since start
3. Lap distance
4. Distance since start
5. Avg. lap speed
6. max. lap speed
7. Avg. heart rate per lap
8. Max. heart rate per lap
9. Calories per lap
10. Avg. lap cadence
11. Max. lap cadence
12. Avg. lap power
13. Max. lap power
14. Avg. lap altitude
15. Max. lap altitude
16. Lap altitude ↑
17. Lap altitude ↓
18. Avg. incline ↑
19. Avg. incline ↓

7.3.10 Tour data – show track

Show track displays a graphical outline of your route.

7.3.11 Tour data – graph. analysis

Graph analysis displays graphs of the following values:

- Speed
- Heart rate
- Cadence
- Power
- Altitude
7.4 Total values

All total values for the three bikes are divided into the following sub-areas:

1. Bicycle
2. Heart rate
3. Uphill
4. Downhill

7.4.1 Total values – bicycle
Displays the total values for the distance and trip time for each bike.

7.4.2 Total values – heart rate
Displays the total calories for each bike.

7.4.3 Total values – uphill
Displays the total values for the altitude ascent, max. altitude, distance ↑ and trip time ↑ for each bike.

7.4.4 Total values – downhill
Displays the total values for the altitude descent, distance ↓ and trip time ↓ for each bike.
8 Status info

8.1 Battery

- ROX 10.0 GPS receiver

The ROX 10.0 GPS comes with a rechargeable battery. This can be charged using a micro USB cable and the USB port on your PC or the USB wall charger supplied.

The charge status is always shown at the top right of the display. If the device is switched off, the charge status will appear in the center of the display while the device is charging.

8.2 GPS signal

View information about the GPS signal:
- Accuracy in meters/feet
- Position (coordinates)
- Date and time
- Satellites and signal strength

8.3 Memory

Shows how much internal memory is used and free.
9 Extras

Note
In addition to the normal training functions, your ROX 10.0 GPS has functions that you can use when not training.

9.1 Stopwatch

Use the stopwatch to record times during sports events.

Start the stopwatch by pressing the START button. The stopwatch in "Extras" is not the same as the stopwatch in the training mode.

Press the START button again (after starting the stopwatch) to time laps. Press the STOP button to stop the stopwatch and ENTER to reset it to zero.

Press the and buttons to scroll through the list of laps.

9.2 Countdown

Use the countdown function to make sure you do not miss important events.

Press the ENTER button to pre-program the countdown. Press the and buttons as well as the ENTER button to set the time.

After setting the time, start the countdown by pressing the START button. Press the ENTER button to pause the countdown and STOP to end the countdown.

Note
Please note that the countdown in the "Extras" menu is not the same as the countdown in the "Training" menu.

9.3 Compass

The compass indicates your direction and location so that you can navigate while on or off the bike.
10 Settings

All functions can either be set on the ROX 10.0 GPS or on the PC and then transferred to the ROX 10.0 GPS.

10.1 Scale unit

You can define the following units for the ROX 10.0 GPS:
- Speed (km/h, mph)
- Distance (km, miles)
- Altitude (meter, feet)
- Temperature (°C, °F)
- Weight (kg, lb)
- Date (DD.MM.YYYY, MM/DD/YYYY)
- Clock (24h, 12h)

10.2 Device

- Language
  Press the ▼ and ▲ buttons followed by ENTER to select the language for the ROX 10.0 GPS.
- Log interval
  Press the ▼ and ▲ buttons followed by ENTER to select the recording interval (1 sec, 2 sec, 5 sec, 10 sec, 20 sec, 30 sec) for the ROX 10.0 GPS.
  For information about how the log recording interval affects the memory capacity, see section ‘6.1.1 Track data memory’.
- Time zone
  Press the ▼ and ▲ buttons followed by ENTER to select the time zone.
Note:
Time zones are listed alphabetically (i.e. US - Eastern -05:00, or US - Central -06:00)

- Summer (daylight savings) time (on/off)
- Countdown (on/off)
  Press the + and - buttons followed by ENTER to specify the time for a countdown to help you complete your training. The countdown begins as soon as your training session starts.
- My name
- Auto pause (on/off)
- Target zone alarm (on/off)
- Button tone (on/off)
- System tone (on/off)
- Contrast
  Press the + and - buttons followed by ENTER to set the contrast (1–4) on the ROX 10.0 GPS.
- Backlight time
  Press the + and - buttons followed by ENTER to set the backlight time (permanent, 5 min on, 2 min on, 30 sec on) for the ROX 10.0 GPS.

10.3 Bike 1–3 & totals

This section is used to program the following information for up to 3 bikes:
- Bike type (race drop, race hoods, mountain bike)
- Bike weight (1.0–50.0 kg)
- Wheel size (500–3999 mm)
10.3.1 Pairing with the ROX 10.0 GPS

ANT+ pairing (speed, cadence, heart rate, power)

The transmitter to be paired must be activated (by the magnet passing the ANT+ speed or ANT+ cadence transmitters or by putting on the chest belt with the heart rate transmitter).

Press the \( \text{ } \) and \( \text{ } \) buttons to select the appropriate transmitter for pairing and start the pairing process by pressing the \( \text{ } \) button ("Search").

“Search” appears briefly followed by the transmitter's ID. The pairing process is now complete and the transmitter can be used for training.

Note

Maintain a gap of one to two feet between the transmitter and the ROX 10.0 GPS. Also ensure that there are no other ANT+ transmitters within a 20 foot radius.

10.3.2 Pairing power meters

Press the \( \text{ } \) and \( \text{ } \) buttons to select "Power Meter Set." then press \( \text{ } \).

Press \( \text{ } \) again to trigger the pairing process with the power meter.

Activate your power meter as described by the manufacturer (usually by turning the pedals or the wheel).

Once the pairing process has successfully completed, you can calibrate the power zero point automatically or manually. Please note that this is not necessary for all power meters. For additional information, please refer to the operating instructions of your power meter.

Note

The zero point is the value that the power meter sends to the ROX 10.0 GPS if it is not recording any forces. It is important to set the zero point before setting off or the automatic zero point will be activated. This value is used to calculate all power data.

10.3.3 Total Values

- Total values (total distance, total ride time, total calories, total altitude ascent, total maximum altitude, total distance up, total time up, total altitude descent, total distance down, total time down)

Enter existing cumulative totals (i.e. - transferred from your old bicycle computer) and all new values will be added.
10.4 Altitude

The home altitude is the altitude of your usual start location (usually your home). You can find this information on road or country maps. You can set three different home altitudes on the ROX 10.0 GPS.

- Home altitude 1
- Home altitude 2
- Home altitude 3
- Altitude points list
  
  The altitude measurement points that are manually entered during rides are stored here in the altitude points list (see section ‘5.2 Calibrating the altitude IAC+’)

  In this setting option you can also delete individual altitude measurement points.

Note

The altitude points list stores a maximum of 20 altitude measurement points.

10.5 User

Use this area to set the following user data:

- Gender (male, female)
- Date of birth (mm/dd/yyyy)
- Body weight (40–400 lbs)
- Body height (40–100 inches)
- Shoulder width (15–30 inches)
- Max. HR (100–240 bpm)

10.6 Heart rate intensity zones

The ROX 10.0 GPS has four intensity zones, which make it easier to manage your training. The values are automatically calculated based on your maximum heart rate. You can manually modify the % values for the individual intensity zones.

The four pre-calculated zones are:

- Intensity zone 1 (60–70%)
- Intensity zone 2 (70–80%)
- Intensity zone 3 (80–90%)
- Intensity zone 4 (90–100%)
Note
In training mode you can view the intensity zone function which includes the percentage of time spent in each zone.

10.7 Heart rate target zone

You can select one of three target zones when training with the ROX 10.0 GPS. The target zones “Fitness” and “Fatburning” are automatically calculated based on your maximum heart rate. You can personalize the heart rate value for the “Individual” target zone. The target zone function can also be deactivated.

- Fitness
- Fatburning
- Individual
- Off

If the target zone is activated, a zone indicator arrow next to the heart rate and an optional beep sound indicate if you are above or below the target zone in training mode.

10.8 Power target zone

Set the upper and lower limits of the power target zone function or deactivate the function. The following values can be set:

- On or off
- Lower limit and upper limit

10.9 GPS settings

- GPS (on/off)
- GPS coordinate format (hddd°mm”ss,s or hddd°mm,mmm)
- Off-track-alarm (131 ft, 262 ft, 394 ft, off)
  
  This alarm informs you that you have left the route. You can set the distance (131 ft, 262 ft, 394 ft, off) at which the alarm should be triggered or deactivate it.

- Waypoint alarm (waypoints are special points of interest that you have marked (POI) along near the route).
The Waypoint alarm indicates that you are approaching a designated point of interest. You can set the distance (131 ft, 262 ft, 394 ft, off) at which the alarm should be triggered or deactivate it.

- Auto-zoom track [on/off]

**10.10 Favorites**

Favorites A and B can be filled with up to 28 functions in the various view modes (Bikecomputer, Track View, Altitude View, Lap Message). You can select the functions that are most important to you.

To set your favorites:

1. Start by pressing the and buttons to set Favorite A or Favorites B and then press .

2. Press the and buttons to select the view mode (Bikecomputer, Track View, Altitude View, or Lap Message) then press .

3. In the “Bikecomputer” view mode, you can define up to 10 values and their display positions. Press the and buttons to choose the position (1–10) in which the value should be displayed then confirm your selection by pressing .

**Note**

Six functions [1A–3B] can be selected in the “Track View”, “Altitude View” and “Lap Message” view modes.

4. Press and to select the function category then press .

5. You are now shown the function choices. Press the and buttons to select the desired functions then press .

6. Your selection is confirmed and a check mark appears.

7. The ROX 10.0 GPS automatically moves to the next setting position. Select the next function and repeat steps 4 through 6.

8. Press the button to return to the view mode (step 2). Repeat the steps above to program the other view modes.

The following list contains all the selectable functions that can be added to your favorites:
<table>
<thead>
<tr>
<th><strong>Bikecomputer</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bicycle</strong></td>
<td></td>
</tr>
<tr>
<td>Current speed</td>
<td>Avg. speed</td>
</tr>
<tr>
<td>Max. speed</td>
<td>Trip distance</td>
</tr>
<tr>
<td>Expansion</td>
<td>Avg. expansion</td>
</tr>
<tr>
<td>Current cadence</td>
<td>Avg. cadence</td>
</tr>
<tr>
<td>Max. cadence</td>
<td></td>
</tr>
<tr>
<td><strong>Heart rate</strong></td>
<td></td>
</tr>
<tr>
<td>Current heart rate</td>
<td>Avg. heart rate</td>
</tr>
<tr>
<td>Max. heart rate</td>
<td>% of the max. heart rate</td>
</tr>
<tr>
<td>Avg. % HR max</td>
<td>Calories</td>
</tr>
<tr>
<td>Target zone</td>
<td>Intensity zone</td>
</tr>
<tr>
<td>Heart rate graph</td>
<td></td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td></td>
</tr>
<tr>
<td>Exercise time</td>
<td>Trip time</td>
</tr>
<tr>
<td>Clock</td>
<td>Date</td>
</tr>
<tr>
<td>Countdown</td>
<td></td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td></td>
</tr>
<tr>
<td>Current power</td>
<td>3s avg. power</td>
</tr>
<tr>
<td>30s avg. power</td>
<td>Avg. power</td>
</tr>
<tr>
<td>Max. power</td>
<td>Work in kJ</td>
</tr>
<tr>
<td>Current power in W/kg</td>
<td>Power target zone</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
</tr>
<tr>
<td>Current temperature</td>
<td>Minimum temperature</td>
</tr>
<tr>
<td>Maximum temperature</td>
<td></td>
</tr>
<tr>
<td><strong>Altitude</strong></td>
<td></td>
</tr>
<tr>
<td>Current altitude</td>
<td>Incline (in %)</td>
</tr>
<tr>
<td>Rise rate</td>
<td>Altitude profile</td>
</tr>
<tr>
<td><strong>Uphill</strong></td>
<td></td>
</tr>
<tr>
<td>Altitude ascent ↑</td>
<td>Max. altitude</td>
</tr>
<tr>
<td>Trip distance ↑</td>
<td>Trip time ↑</td>
</tr>
<tr>
<td>Avg. speed ↑</td>
<td>Max. rise rate ↑</td>
</tr>
<tr>
<td>Avg. incline</td>
<td>Max. incline</td>
</tr>
<tr>
<td>Avg. expansion</td>
<td></td>
</tr>
</tbody>
</table>
### Downhill
- Altitude descent ↓
- Trip distance ↓
- Trip time ↓
- Avg. speed ↓
- Max. rise rate ↓
- Avg. expansion

### Status
- Battery status
- GPS accuracy
- GPS signal

### Navigation
- Time to destination
- Time of arrival
- Distance to destination
- Direction
- Mini track

### Lap
- Lap number
- Lap time
- Lap distance
- Avg. speed per lap
- Max. speed per lap
- Avg. heart rate per lap
- Max. heart rate per lap
- Calories per lap
- Avg. cadence per lap
- Max. cadence per lap
- Avg. power per lap
- Max. power per lap
- Altitude ascent per lap ↑
- Altitude descent per lap ↓
- Avg. incline per lap ↑
- Avg. incline per lap ↓

### Track View, Altitude View

#### Bicycle
- Current speed
- Avg. speed
- Max. speed
- Trip distance
- Expansion
- Avg. expansion
- Current cadence
- Avg. cadence
- Max. cadence

#### Heart rate
- Current heart rate
- Avg. heart rate
- Max. heart rate
- % of the max. heart rate
- Avg. % of the max. heart rate
- Calories

#### Time
- Exercise time
- Trip time
- Clock
- Date
- Countdown

#### Power
- Current power
- 3s avg. power
- 30s avg. power
- Avg. power
- Max. power
- Work in kJ
- Current power in W/kg
### Temperature

| Current temperature | Minimum temperature |

### Altitude

| Current altitude | Incline (in %) |

### Uphill

| Altitude ascent ↑ | Max. altitude |
| Tip distance ↑ | Trip time ↑ |
| Avg. speed ↑ | Max. rise rate ↑ |
| Avg. incline ↑ | Max. incline ↑ |
| Avg. expansion ↑ |

### Downhill

| Altitude descent ↓ | Trip distance ↓ |
| Trip time ↓ | Avg. speed ↓ |
| Max. rise rate ↓ | Avg. incline ↓ |
| Max. incline ↓ | Avg. expansion ↓ |

### Status

| Battery status | GPS accuracy |

### Navigation

| Time to destination | Time of arrival |
| Distance to destination | Direction |

### Lap

| Lap number | Lap time |
| Lap distance | Avg. speed per lap |
| Max. speed per lap | Avg. heart rate per lap |
| Max. heart rate per lap | Calories per lap |
| Avg. cadence per lap | Max. cadence per lap |
| Avg. power per lap | Max. power per lap |
| Avg. altitude per lap | Max. altitude |
| Altitude ascent per lap ↑ | Altitude descent per lap ↓ |
| Avg. incline per lap ↑ | Avg. incline per lap ↓ |

### Lap Message

| Lap |
| Lap number | Lap time |
| Time since start | Lap distance |
| Distance since start | Avg. speed per lap |
| Max. speed per lap | Avg. heart rate per lap |
| Max. heart rate per lap | Calories per lap |
| Avg. cadence per lap | Max. cadence per lap |
| Avg. power per lap | Max. power per lap |
| Avg. altitude per lap | Max. altitude |
10.11 Firmware update

Caution
Firmware updates reset all values to zero and restore initial factory settings. Before starting the firmware update, download your ride data and all relevant settings to your PC or Mac.

To complete the firmware update:

1. Use the micro USB cable to connect your ROX 10.0 GPS to your PC or Mac, then press ENTER on the ROX 10.0 GPS.
2. Open the “Data Center” on your PC.
3. Within the Data Center, select the Firmware Update option and follow the on-screen instructions. Additional information can be found in the Data Center instruction manual.

After the update, the ROX 10.0 GPS turns off.

10.12 Factory settings

Caution
Resetting the ROX 10.0 GPS to factory settings resets all values to zero and restores initial factory settings. Before restoring the factory settings, download your ride data and all relevant settings to your PC or Mac.

To restore the factory settings:

1. Press the  and  buttons to select “Yes” then press ENTER.
2. The question “Are you sure?” appears. Confirm that you are sure by pressing ENTER.
3. The device is now reset to factory settings.

After the ROX 10.0 GPS has been reset to factory settings, it turns off.
11 Important information, troubleshooting, and FAQ

11.1 Important information

11.1.1 ROX 10.0 GPS water resistance
The ROX 10.0 GPS is watertight in accordance with Standard IPX7. It can be used in the rain without risk of damage. The buttons can be pressed.

11.1.2 Water resistance of the transmitters [optional accessory]
ANT+ speed transmitter and ANT+ cadence transmitter
Watertight in accordance with IPX7:
They can be used in the rain without risk of damage.

ANT+ heart rate transmitter
Watertight up to 3 ATM and therefore suitable for many sporting activities.

General
ANT+ wireless transmission does not work under water!

11.1.3 Chest belt care [optional accessory]
The COMFORTEX+ cloth chest belt is machine washable on the delicate cycle. Conventional laundry detergent is recommended.

Note
Bleach or detergents containing bleach must not be used. Do not use soap or fabric softener! Do not dry clean the COMFORTEX+ chest belt. Air dry only. Lay flat to dry and do not iron.

11.1.4 Training advice
Consult your physician before starting an exercise program.
If you have a pacemaker, please check with your physician prior to use!
11.2 Troubleshooting

No speed displayed via the ANT+ speed transmitter
- Do you have both the ANT+ speed transmitter and the magnet properly installed?
- Has the ANT+ speed transmitter been paired with the ROX 10.0 GPS? (See section ‘10.3 Bike 1–3 & totals’)
- Have you checked the distance between the magnet and the ANT+ speed transmitter [max. 12 mm or 1/2 inch]? If the distance between the magnet and transmitter is correct and the transmitter is properly paired, the LED light on the transmitter will flash with the first 10 wheel rotations.
- Have you checked whether the magnet is magnetized?
- Have you checked the ANT+ speed transmitter’s battery status? To do so, press the button on the transmitter and check if the LED illuminates.

No speed displayed via the GPS signal
- You can switch off the GPS function under the menu path “Settings/GPS Settings”. Is it switched on?
- Are you outdoors?
- Does your ROX 10.0 GPS have satellite connection? (See section ‘8.2 GPS signal’). Please note that it can initially take approx. 1 minute for a GPS signal to be received.

No cadence displayed
- Do you have both the ANT+ cadence transmitter and the magnet properly installed?
- Has the ANT+ cadence transmitter been paired with the ROX 10.0 GPS? (See section ‘10.3 Bike 1–3 & totals’)
- Have you checked the distance between the magnet and the ANT+ cadence transmitter [max. 12 mm or 1/2 inch]? If the distance between the magnet and transmitter is correct and the transmitter is properly paired, the LED light on the transmitter will flash with the first 10 pedal rotations.
- Have you checked whether the magnet is magnetized?
- Have you checked the ANT+ cadence transmitter’s battery status?

No heart rate displayed
- Are the electrodes moist enough?
- Is the ANT+ heart rate transmitter correctly positioned against your body?
- Has the ANT+ heart rate transmitter been paired with the ROX 10.0 GPS?
- Have you checked the ANT+ heart rate transmitter’s battery status?
Blank display
- Have you checked the ROX 10.0 GPS’s charge status?
- Is the battery charged?
- Is the ROX 10.0 GPS switched on?

Display weak/slow
- Is the temperature too high (> 140 °F) or too low (< 32 °F)?

Incorrect speed displayed
- Have two magnets been attached?
- Is the magnet correctly positioned (parallel and centrally aligned to the ANT+ speed transmitter)?
- Is the wheel size correctly set?

11.3 Frequently asked questions

Can I change the batteries myself?
The ROX 10.0 GPS uses an integrated rechargeable battery. It is not possible for you to change this battery yourself.

All of the ANT+ transmitters use a CR 2032 battery which can easily be changed. You simply need a coin to open the battery compartment.

The battery will not fully charge
Please disconnect the micro USB cable from the ROX 10.0 GPS and reconnect it after 20 seconds.

Can another person with a different bike computer/heart rate monitor cause interference?
The ANT+ transmitter work on a high digital frequency and are extremely resistant to electromagnetic interferences. The pairing process assigns the transmitters to specific bikes. All other ANT+ transmitters that are not paired are ignored in training mode. This almost entirely prevents any interference between two different devices.

How long will the battery in the transmitter last?
In general, all three transmitter batteries should last at least a year (based on one hour of use each day). The heart rate transmitter’s battery lasts for three years.

Is the ANT+ transmission system compatible with other transmission systems (e.g. Bluetooth, STS, DTS etc.)?
No, the various transmission systems are not intercompatible.

Why has the altitude changed even though I have not moved?
The ROX 10.0 GPS’s altitude measurement is based on a barometric altitude measurement. Barometric air pressure constantly changes, therefore current altitude can change even though you are not moving.
Why do I always have to calibrate the current altitude?

Barometric air pressure is used to determine the current altitude, the constant changes to the current air pressure lead to changes to the current altitude. To offset these fluctuations and achieve an accuracy of one meter in the current altitude information, a reference altitude should be entered before each trip. Entering this reference altitude is known as calibration.

Data transfer between the ROX 10.0 GPS and the Data Center software does not work or is faulty or slow:

Please ensure that the ROX 10.0 GPS is installed in the device manager as a COM port.

Avoid connecting the device via a USB hub.

Preferably use USB 1.1 or 2.0 connections.

If you still have data transfer problems, please contact our customer service team.
## 12 Technical data

### 12.1 Max, min, and default values

<table>
<thead>
<tr>
<th>Unit</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bicycle</strong></td>
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<td></td>
</tr>
<tr>
<td>Current speed</td>
<td>kmh/mph</td>
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<td>kmh/mph</td>
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</tr>
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<td>km/mi</td>
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</tr>
<tr>
<td>Expansion</td>
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</tr>
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<td>Avg. expansion</td>
<td>m/ft</td>
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</tr>
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<td>rpm</td>
<td>20</td>
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<tr>
<td>Max. cadence</td>
<td>rpm</td>
<td>20</td>
</tr>
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<td><strong>Heart rate</strong></td>
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<td></td>
</tr>
<tr>
<td>Current heart rate</td>
<td>bpm</td>
<td>30</td>
</tr>
<tr>
<td>Avg. heart rate</td>
<td>bpm</td>
<td>30</td>
</tr>
<tr>
<td>Max. heart rate</td>
<td>bpm</td>
<td>30</td>
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<tr>
<td>% of the max. heart rate</td>
<td>%</td>
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</tr>
<tr>
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<td>%</td>
<td>12</td>
</tr>
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</tr>
<tr>
<td><strong>Time</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exercise time</td>
<td>mm:ss.x/hh:mm:ss</td>
<td>00:00.0</td>
</tr>
<tr>
<td>Trip time</td>
<td>mm:ss.x/hh:mm:ss</td>
<td>00:00.0</td>
</tr>
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<td>DD.MM.YYYY or mm/dd/yyyy</td>
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<tr>
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<td>3s avg. power</td>
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<tr>
<td>Max. power</td>
<td>Watt</td>
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</tr>
<tr>
<td>Work in kJ</td>
<td>kj</td>
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<td>Current power</td>
<td>Watt/lb</td>
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</tr>
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<td>Power target zone</td>
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</tr>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
<td></td>
</tr>
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<td>Current temperature</td>
<td>°C/°F</td>
<td>-10.0/+14.0</td>
</tr>
<tr>
<td>Minimum temperature</td>
<td>°C/°F</td>
<td>-10.0/+14.0</td>
</tr>
</tbody>
</table>
## Technical data

**Max, min, and default values**

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<thead>
<tr>
<th>Unit</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum temperature</td>
<td>°C/°F</td>
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<tr>
<td><strong>Altitude</strong></td>
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</tr>
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<td>ft</td>
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</tr>
<tr>
<td>Incline (%)</td>
<td>%</td>
<td>-99</td>
</tr>
<tr>
<td>Current rise rate</td>
<td>ft/min</td>
<td>-499</td>
</tr>
<tr>
<td><strong>Uphill</strong></td>
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<td></td>
</tr>
<tr>
<td>Rise rate</td>
<td>ft</td>
<td>0</td>
</tr>
<tr>
<td>Max. altitude</td>
<td>ft</td>
<td>-999</td>
</tr>
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<td>Max. incline uphill</td>
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<tr>
<td>Avg. expansion uphill</td>
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<tr>
<td><strong>Downhill</strong></td>
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<tr>
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</tr>
<tr>
<td>Distance since start</td>
<td>mi</td>
<td>0</td>
</tr>
<tr>
<td>Avg. max. speed per lap</td>
<td>mph</td>
<td>0.00</td>
</tr>
<tr>
<td>Max. speed per lap</td>
<td>mph</td>
<td>0.00</td>
</tr>
</tbody>
</table>
## Technical data

### Temperature, batteries

<table>
<thead>
<tr>
<th>Unit</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg. HR per lap</td>
<td>bpm</td>
<td>40</td>
</tr>
<tr>
<td>Max. HR per lap</td>
<td>bpm</td>
<td>40</td>
</tr>
<tr>
<td>Calories per lap</td>
<td>kcal</td>
<td>0</td>
</tr>
<tr>
<td>Avg. cadence per lap</td>
<td>rpm</td>
<td>20</td>
</tr>
<tr>
<td>Max. cadence per lap</td>
<td>rpm</td>
<td>20</td>
</tr>
<tr>
<td>Avg. power per lap</td>
<td>Watt</td>
<td>0</td>
</tr>
<tr>
<td>Max. power per lap</td>
<td>Watt</td>
<td>0</td>
</tr>
<tr>
<td>Avg. altitude per lap</td>
<td>ft</td>
<td>-999</td>
</tr>
<tr>
<td>Max. altitude per lap</td>
<td>ft</td>
<td>-999</td>
</tr>
<tr>
<td>Altitude ascent per lap</td>
<td>ft</td>
<td>0</td>
</tr>
<tr>
<td>Altitude descent per lap</td>
<td>ft</td>
<td>0</td>
</tr>
<tr>
<td>Avg. incline per lap ↑</td>
<td>%</td>
<td>0</td>
</tr>
<tr>
<td>Average incline per lap ↓</td>
<td>%</td>
<td>-99</td>
</tr>
</tbody>
</table>

### Bike computer

Ambient temperature +140 degrees F/ +14 degrees F

### ANT+ speed transmitter

Ambient temperature +140 degrees F/ +14 degrees F

Battery type CR 2032 [ref. no. 00342]

### ANT+ cadence transmitter

Ambient temperature +140 degrees F/ +14 degrees F

Battery type CR 2032 [ref. no. 00342]

### ANT+ heart rate transmitter

Ambient temperature +140 degrees F/ +14 degrees F

Battery type CR 2032 [ref. no. 00342]
13 Warranty and guarantee

We are liable to our contracting partners for defects in line with legal provisions. The warranty does not extend to batteries. In the event of a warranty claim, please contact the retailer from whom you purchased your bike computer. You can also send your bike computer, together with your receipt and all accessories, to the address below. Please ensure you pay sufficient postage.

SIGMA SPORT USA
3487 Swenson Ave.
St. Charles, IL 60174, U.S.A.
Toll free: 888-744-6277
E-mail: sigmarox@sigmasport.com

In the event of justified warranty claims, you will receive a replacement device. You will only be entitled to the model available at the time of replacement. The manufacturer retains the right to make technical modifications.

Batteries must not be disposed of in household waste [Battery Law - BattG]!
Please take the batteries to an official collection point for disposal.

Electronic devices must not be disposed of in household waste. Please take the device to an official waste collection point.

The CE declaration can be found at: www.sigmasport.com

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by SIGMA may void the FCC authorization to operate this equipment.

This Class B digital apparatus complies with Canadian ICES-003.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this
equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.
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