SERVICE

Manual

ROX 11.1 EVO - General information

How do I perform a tour data reset?
After completing your tour, please press the save symbol (top left button) to save the activity. If you want to delete the activity, press and hold the + button until the recycle bin appears. Then confirm the deletion with the top left button.

Description of the HR zones
For better training control, HR zones are displayed for various training areas, which are derived from the individual maximum heart rate.
The zones can be customised.

Range	Per cent of maximum heart rate	Meaning
1 (Recover)	<60%	Relaxed, easy ride. Low load
2 (Cardio)	61%-70%	Comfortable ride
3 (Fitness)	71%-80%	A slightly more strenuous ride, good training for the cardiovascular system.
4 (Performance)	81%-90%	Fast ride that is more demanding.
5 (Speed)	91%-100%	Maximum performance that can only be maintained for a short time.

How do I delete my sport profiles?
Open the SIGMA RIDE APP and select the device you are using.
In the Sport profiles tab, you can delete the corresponding sport profile by swiping from right to left.

How do I recognise whether the sensors are connected via ANT+ or BLE?
In the menu under Connections->Sensor->Connected sensors, you can display the connected sensors. Depending on the connection, either ANT+ or BLE is displayed under the name of the sensor

How can I set the time zone and time of day?
Time zones / time of day – Every time you switch on the device and acquire satellite signals or synchronise the device with your smartphone, it automatically determines the time zone and the current time of day.

day.

Can I also use third-party mounts?
Only use the mount from SIGMA SPORT.

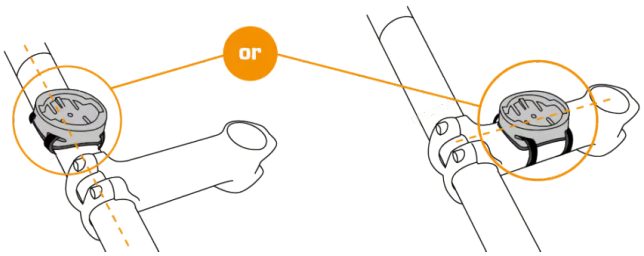
How do I add my gear ratio to my connected electronic gear?
If incorrect values are transferred from your electronic gear to the gear ratio, you can change them by selecting your gear in the menu under Connections->Sensors->Connected sensors. You can then use Set to change the number of teeth on the front chainrings and the cassette.

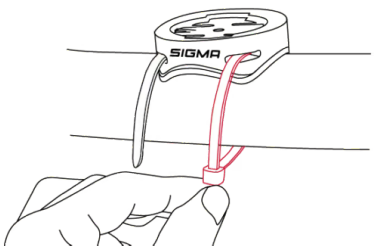
How does the Crash Alert work?
The ROX can recognise whether you are involved in an accident by means of acceleration sensors. If a crash is detected, a message appears on your ROX asking whether everything is OK. If this question is not answered, the ROX displays the medication you have stored. In addition, if there is an active connection to the RIDE app, an automatic text message with the latest position data is sent to the emergency contacts you have stored.

What do the AM pop-up settings mean?
Assist mode pop-ups are short displays of your e-bike's assist mode when you change it.

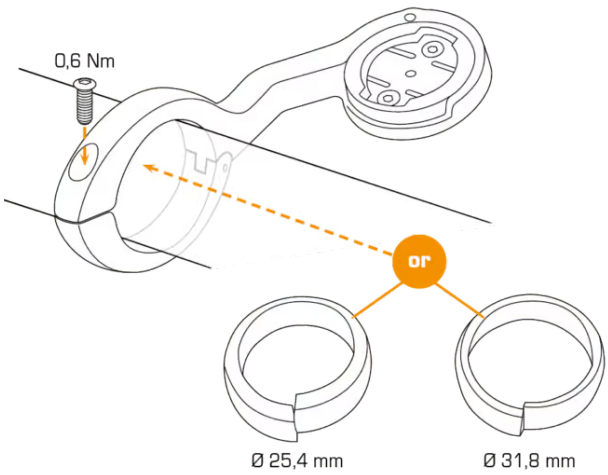
Assembly

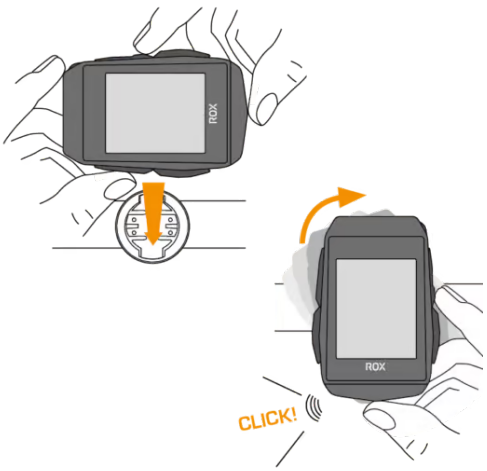
GPS MOUNT





SHORT BUTLER

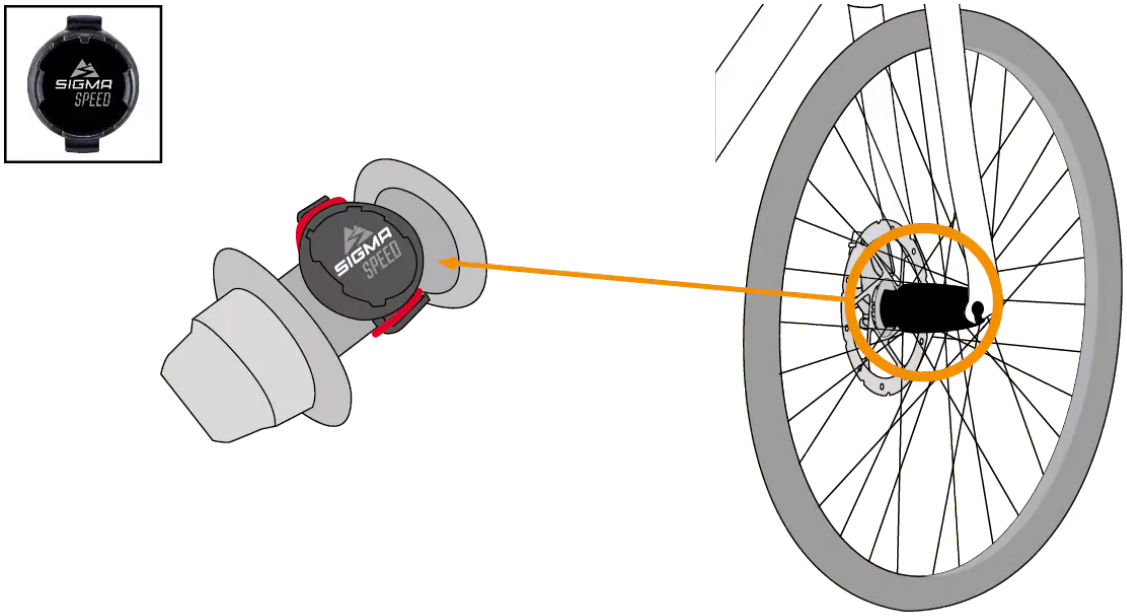




FIRST START SPEED / CADENCE TRANSMITTER

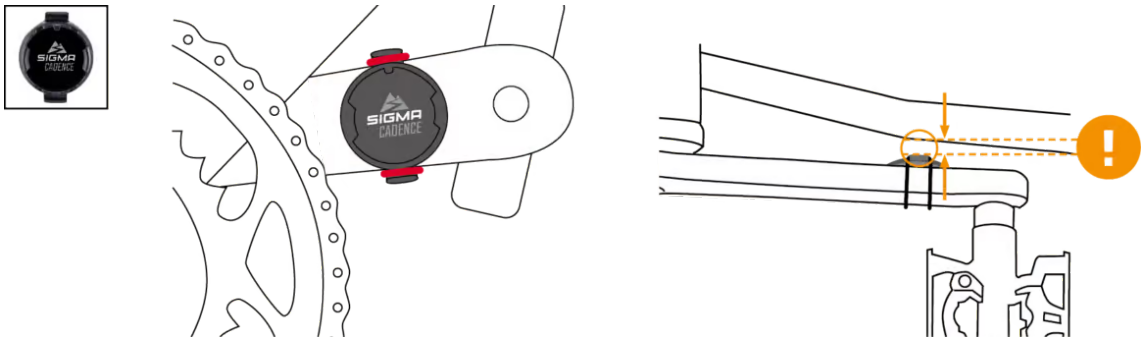


SPEED TRANSMITTER

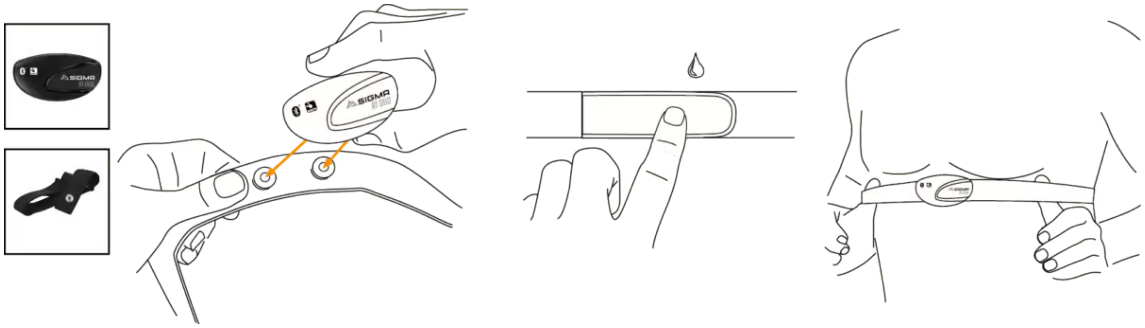


The SPEED-Sensor can be mounted on the bicycle hub of both wheels.

CADENCE TRANSMITTER



HEART RATE TRANSMITTER

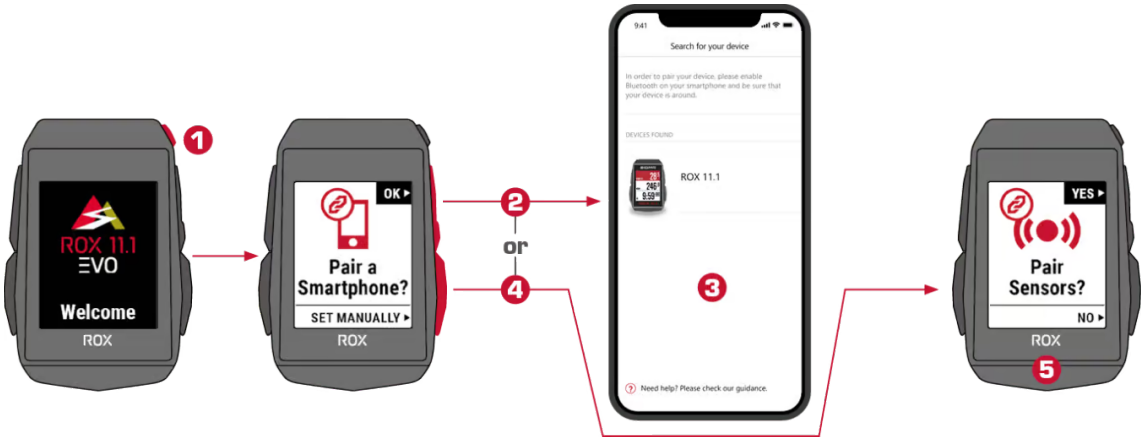


Buttons

The ROX 11.1 EVO has 5 buttons. The functions of the keys are described in the following graphic:



First Start



If you want to use the device for the first time, press and hold the button for 5 seconds 1. You will then get to the wake-up menu, in which you can make all the important settings.

You have 2 options for this:
Connect the smartphone and set the ROX 11.1 EVO with the SIGMA RIDE app 2
Make the settings manually on the ROX 11.1 EVO 4

1. To connect the smartphone, please follow the instructions in the ***CHAPTER CONNECTING A SMARTPHONE***.
   To adjust a setting manually, select the desired value with the + or − button and confirm this by pressing the △ button. If you want to go back one level in order to change a setting again, press the □ button.
   At the end of the setting, you have the option of connecting sensors such as a heart rate chest strap, please follow the instructions in the ***CHAPTER CONNECTING THE SENSOR***.
2. When all settings have been made, you can use the device. To assemble the device, please follow the steps in the ***CHAPTER ASSEMBLY***.

Training with the ROX 11.1 EVO

Every time you switch on the device, the ROX 11.1 EVO starts in the training screen to enable you to start training as quickly as possible. The last sport profile used is always loaded. If you want to change the sport profile, you have to do this **BEFORE** starting the training.

To do this, go to the main menu (button) and select **Sport profile**. Here you can see which sport profiles are on the device and can select a profile (+ or − button) and confirm the selection (button). If you have switched on GPS in the active sport profile (this is already the case with most profiles in the delivery state), the ROX 11.1 EVO starts looking for GPS satellites immediately after switching on.

GPS FIX

In order to enable the ROX 11.1 EVO to be connected to GPS / GLONASS as quickly as possible, please follow these instructions:

› Find a field that is as open as possible (no trees, houses, etc. that interfere with reception)
› If possible, do not move until you have received the message" GPS OK "
If you missed the message, you can also find out in the main menu whether a GPS fix has taken place. If so, the GPS symbol stops flashing.
› Synchronize the ROX 11.1 EVO as regularly as possible with the SIGMA RIDE app so that the most current GPS data is always available on the device.

TRAINING PROCESS

If you want to use GPS, wait until the **message "GPS OK"**. Then press the ▷ button once to start the workout. The display shows you the current training status. If you see white numbers on a black background, the training has not yet started or is in auto pause mode. If you have not yet started the training but are moving at more than 2.2 km / h, you will receive a recurring request to start the training. Data is only recorded when it has been started.



At any time during the training you can change the training views for the current sport profile, use the SIGMA RIDE app and follow the instructions in the **CHAPTER SETTING TRAINING VIEWS**.
If you would like to set other settings during the training, such as auto pause, tones or the display brightness or load a track or workout, press the ⓘ button once to access the quick menu. Here you can also calibrate the height sensor if your displayed height does not match the real height.
If you want to take a lap during training, you can do this by briefly pressing the ▷ button.
If you want to end the training, press the □ button once. You can now start the training again by pressing the ▷ button, or you can leave the training and save the training session. To do this, press the □ button again.
To delete the workout, press and hold the + button. You can then delete the training session with the ▷ button or return to saving the training session with the □ button.

SAVING AND EVALUATING THE TRAINING

At the end of the training you will receive a summary of the completed training session. On the first page you can see a general summary. Assessment of the training data, including the SIGMA Performance Index. You can find more information about the interpretation of this value in the **CHAPTER SIGMA PERFORMANCE INDEX**.

Depending on which sensors you had connected during training, you will be shown further overview pages. For example, if you have connected a watt meter, you will receive a summary of the most important power and cadence values. If a chest strap has been connected, you will get an overview of the heart rate data,

etc.

The training data is synchronized with the SIGMA RIDE app after the training. You can also synchronize the training data with the PC and the SIGMA DATA CENTER via a USB connection.

You also have the option of synchronizing the data with the SIGMA RIDE app in third-party portals. Instructions for this can be found in the ***CHAPTER SYNCHRONIZING TRAINING DATA WITH THIRD-PARTY SOFTWARE***.

In addition to the detailed evaluation of the data, you will also find an overview of the training values performed for each sport profile directly on the device. To do this, open the main menu and select the **Storage › Totals** area. In addition to the total values, you will also find the training summaries for all training units on the device.

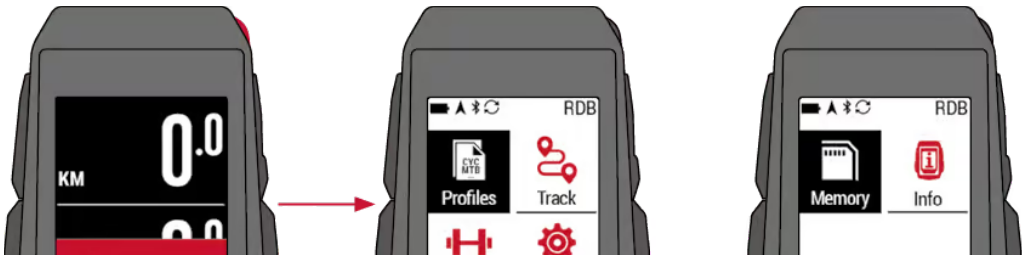


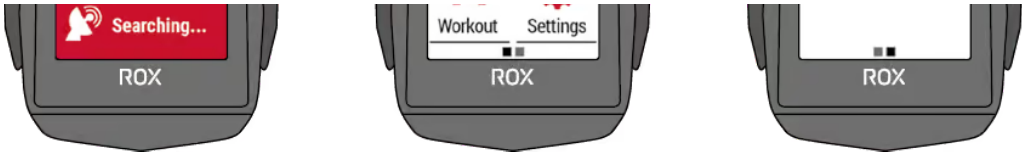
Operation of the device

MENU STRUCTURE

The ROX 11.1 EVO has 2 different menus, both of which can be called up using the button.

MAIN MENU:





You can reach the main menu if the training has not yet started. All available settings can be reached via the main menu. View your completed training units and add a smartphone, external sensors or e-bike to the ROX 11.1 EVO for the first time.

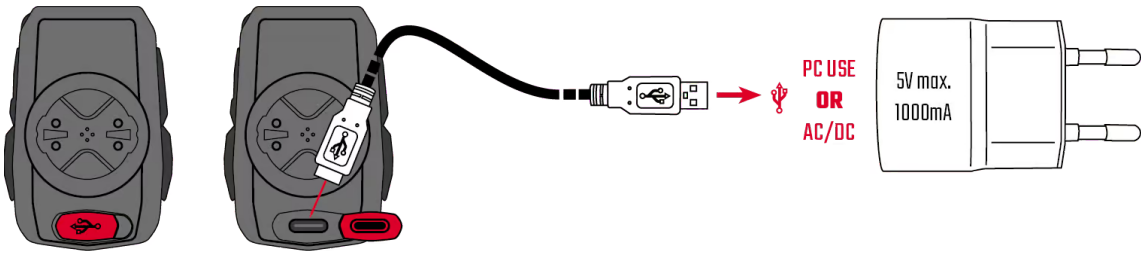
QUICK MENU:



You can access the quick menu when the training has started or is in AutoPause. In the quick menu you only have access to the most important training functions and settings.

CHARGING AND BATTERY LIFE

The ROX 11.1 EVO has a standard USB-C connection. You can charge the ROX 11.1 EVO at any USB port that has the following specifications met:
Voltage: 5V
Charge current at least: 1000mA



The ROX 11.1 EVO can also be charged while driving, e.g. if you connect a power bank to the device.

Warning: The connection here is not waterproof. If the ROX 11.1 EVO is charged with a wet USB-C port, corrosion can occur.

The charging time is approx. 2.5 – 3 hours, depending on the charger used. During the charging process, you can see the current charge status on the display.
Please note that the ROX 11.1 EVO might not be able to charge on some USB-C to USB-C powerchargers.

Depending on how the device is used, the battery life will vary. The usual runtimes can be found in the following table:

Parameter	Energy consumption scenario		
	Low	Medium	High
GPS reception	Well	Medium	Bad
Number of connected sensors	0	2	4
Type of connected sensors	n/A	Speed, Cadence	Speed, Cadence, Heart Rate, Power
Smartphone connected	No	Yes	Yes
Number of smart notifications per hour	0	4	8
Power saving mode	On	Auto	Off
Display brightness	1	5	10
Ambient light	Dark	Medium	Bright
Track loaded?	No	No	Yes
Expected battery life	25 hours	18 hours	15 hours

Please note: The scenarios shown are sample values. They are used for orientation, to demonstrate the expected running times of the ROX 11.1 EVO and to provide you with pointers on how you can extend the battery life.

SPORT PROFILES

The ROX 11.1 has so-called **sport profiles**. These are used to link different settings to the selected sport. If you change the sport profile, i.g. set the training views and the settings for the automatic pause. Once set, the annoying checking of the settings is no longer necessary. The display views and other basic settings can only be changed using the SIGMA RIDE app. To do this, connect the ROX 11.1 EVO to the SIGMA RIDE app. Select **Sport Profiles** and set the desired sport profile. With the SIGMA RIDE app, you can also edit the sport profiles via the app during active training. Changes, e.g. to the training views, are then immediately visible while driving.

COMMUNICATION WITH EXTERNAL SENSORS

The ROX 11.1 EVO can connect to external sensors using two different radio protocols: **Bluetooth Low Energy (BLE) and ANT+**. Please note that many sensors offer both protocols. In that case you only have to connect **ONE** of the two channels to receive the data from the sensor. We recommend selecting the connection via ANT + here.

The following sensors can be connected:

BLE / ANT +:
› Speed sensor
› Cadence sensor
› Combo sensors for speed and cadence
› Power meter
› Heart rate sensors (e.g. chest strap)

ANT +:
› Smart trainers who support the FE-C protocol

Please refer to the sensor manufacturer's operating instructions to find out whether your sensors support the protocols mentioned ellers. How to establish the connection can be found in the **CHAPTER SETTING THE CONNECTION TO EXTERNAL SENSORS**. If the sensor has been found by the ROX 11.1 EVO, you will receive a short message about the successful connection.

Settings

You basically have various options to adjust the settings of the ROX 11.1 EVO according to your wishes. You can do this either directly on the device or with the SIGMA RIDE app.

MAKE SETTINGS ON THE DEVICE

This chapter describes the settings that you can set in the main menu.
If you have already started the training, you only have a selection of setting options in the quick menu.

To open the main menu, press the button once. You will find the following options for setting the device in the **Settings menu**:
› **Profiles:** Here you set the sport profiles on the device.
› **Connection:** Here you can set up connections to external sensors, a smartphone, eBIKE or Komoot
› **Device:** Here you will find all device settings
› **User:** Here you enter all personal data.

The functionality of the ROX 11.1 EVO is identical in all settings. Use the + or − button to select the menu item to be set, press ▷ to confirm the selection. Then you can make the setting with the + or − button and confirm again with ▷. If you would like to discard the setting, press the □ button. You can close the menu at any time by pressing the button.

SET SPORT PROFILES

To change the settings of a sport profile, first select the sport profile that you want to change in the menu item **Settings › Profiles**. In the settings for the sport profile, you can change some settings directly on the list level.

AUTO PAUSE

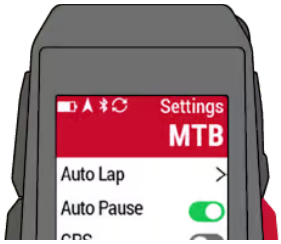
The device pauses when the current speed drops below 2.2 km / h.

GPS

GPS can be switched off, e.g. when exercising indoors.

FALL DETECTION

The ROX 11.1 EVO detects a fall by evaluating acceleration data and, if there is no reaction, can send an emergency message to your emergency contacts via the SIGMA RIDE app. If you do not want to use this function, deactivate the fall detection.





AUTO LAP

The ROX 11.1 EVO can record automatic laps. You can choose either distance or time to record automatic laps. For example, if you have selected **Distance › 5 km**, the ROX 11.1 EVO takes an automatic lap every 5 km.

First select the criterion (time or distance) for the automatic lap. Confirm your selection with the ▷ button. Now set the respective value (time or distance) with the + or — button and confirm the selection with the ▷ button.

If you set it to **OFF**, no automatic laps will be recorded.



TARGET ZONE

You can set a target zone for your training in order to be able to better control the training. If you would like to pursue a certain sequence of target zones, e.g. according to a structured training plan, we recommend using the workout function (see CHAPTER WORKOUT).

You can define the following values as the target zone:
› Heart rate
› Speed
› Cadence
› Power

First select the corresponding parameter for the target zone with the + or — button. Confirm your selection with the ▷ button. In the next screen you can then define the upper and lower limits for the target zone. First set the lower limit with the + or — button. Confirm the value with the ▷ button. Now set the upper limit in the same way and confirm the selection with the ▷ button.



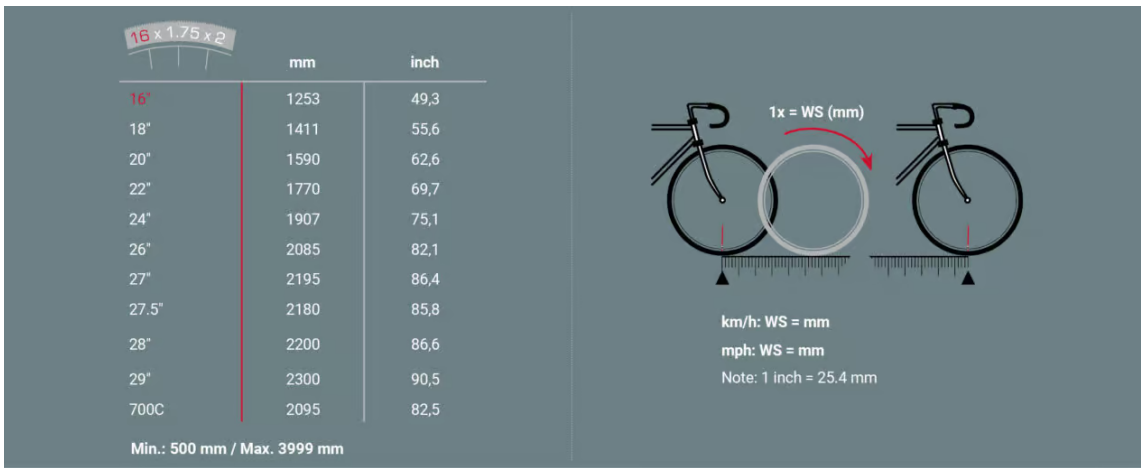
If you have set a target zone, you should remember to also have the target zone shown as one of the training values in the display. You can make this setting using the SIGMA RIDE app. Further information can be found here in the ***CHAPTER SETTING TRAINING VIEWS***.

WHEEL CIRCUMFERENCE

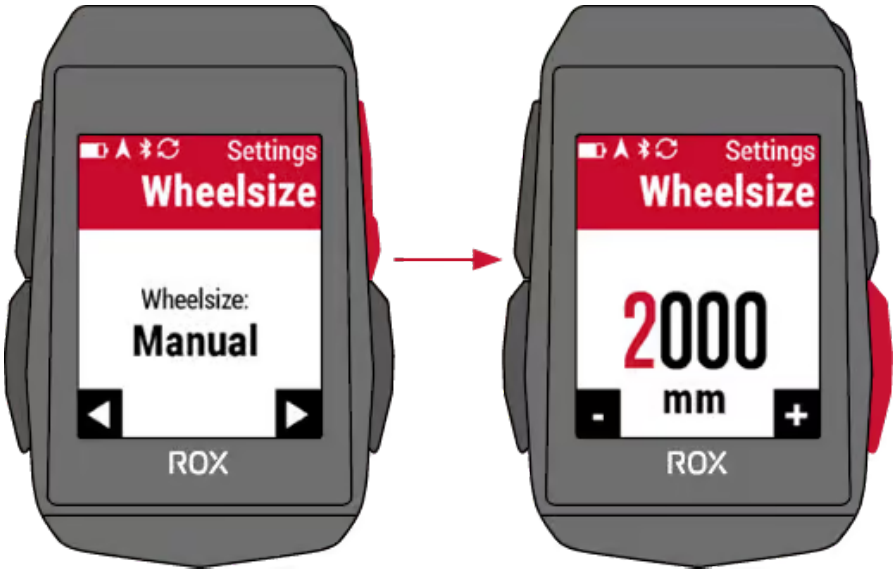
The setting of the wheel circumference is particularly relevant when using an external speed sensor. How you can connect this is described in the ***CHAPTER CONNECTING EXTERNAL SENSORS***.

To determine the correct wheel circumference, you can either use the following table as a guide or measure the wheel circumference. To do this, mark the starting point on the wheel and on the ground. Roll the wheel exactly one turn and mark the end point on the floor. Then measure the distance between the start and end points. This distance gives the correct wheel circumference (in mm).

To set the wheel circumference in the ROX 11.1 EVO, you can choose from one of the following values, alternatively you can also set a manual value.



To set the wheel circumference manually, first select the value “Manual” with the + or button and confirm the selection with the ▷ button. Now you can set the wheel circumference with + or —. With the ▷ button you go one position further, with the □ button one position back. When you have reached the last position, confirm the setting with the ▷ button.



Set connections

CONNECTION TO THE SMARTPHONE

To establish the connection to the smartphone, make sure that Bluetooth is switched on on your smartphone. You have to download the SIGMA RIDE app from the respective app store (iOS or Android). If these two requirements are met, select the menu item **Smartphone** in the ROX 11.1 EVO. The ROX 11.1 automatically searches for the SIGMA RIDE app. For the rest of the process, please follow the instructions in the SIGMA RIDE app.

During the connection process you will be asked to enter a PIN in the smartphone. Enter this correctly and wait for the **confirmation “Pairing OK”**.



The SIGMA RIDE app will ask you for various authorizations, including location approval. Agree to these

authorization requests in order to ensure optimal functionality of the SIGMA RIDE app. If you have successfully connected the smartphone, you can see in the menu item **Smartphone** which smartphone was connected to the device and cancel the pairing to the smartphone. Please note that the ROX 11.1 EVO can only communicate with **ONE** smartphone.

CONNECTION TO EXTERNAL SENSORS

To establish a connection with a sensor, the sensor must be within radio range (a maximum of approx. 10 m away). In addition, the sensor must be activated or switched on.

How to mount the supplied sensors (**only available in the SET or as an accessory**) is described in the CHAPTER ASSEMBLY.

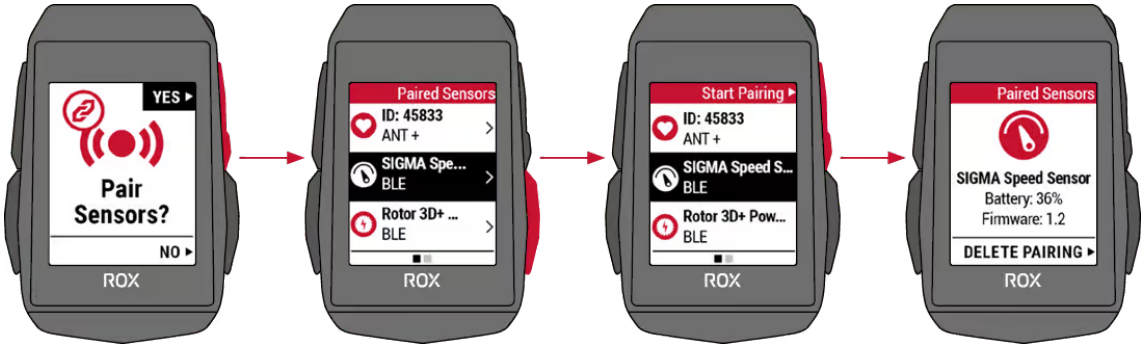
If you have not yet connected any sensors, select the Sensors menu item. The ROX 11.1 then automatically searches for all available sensors. If sensors are found, a list with all newly found sensors appears. For ANT + sensors you see the sensor ID in the list, for BLE sensors the name of the sensor appears, and there is a **BLE** or **ANT+** mark in the list view to clearly identify the sensors.

Note: Some sensors are available in Bluetooth and ANT+ at the same time. We recommend to choose the ANT+ connection.

You can see the type of sensor from the symbol in front of the ID or name. The following symbols stand for the different sensor types:

Symbol	Description
	Smart Trainer (only via ANT+ FE-C)
	Speed sensor
	Power meter
	Cadence sensor
	Speed & Cadence sensor
	Heart rate sensor
	Radar (only via ANT+)

To pair a sensor with the ROX 11.1, select the sensor in the list and press the ▷ button. The pairing starts immediately and the sensor is marked with a green symbol if the pairing was successful. If an error message is displayed, please check the requirements described again.



If you have already connected sensors, you can add new sensors as well as view and manage the existing sensors by selecting **Connection** › **Sensors**.

In addition to the battery status of the sensor, you can see the firmware version (if available) and you can cancel the pairing with the sensor by pressing the + button. With power meters, you also have the option of setting the power meter. How to proceed here can be found in the chapter ***SETTING AND CALIBRATING THE POWER METER***.

During training, you can view the connection status to the sensors via the short cut menu. You will also receive a short message when a sensor has been connected or the connection to a sensor is lost. If a sensor is not found, the "- -" symbol appears after 5 minutes instead of the value (e.g. watt). Then please check whether the sensor is within range and switched on. If you would like to connect a sensor to the device at a later time, open the **quick menu** by pressing the ⏻ button (in the started training). Then select **Search sensors**. The ROX 11.1 EVO then briefly disconnects all connections and reconnects the sensors.

In order to be able to view the data from the sensors during training, remember to adapt the training views accordingly.

E-BIKE

To connect an e-bike to the ROX 11.1, select the E-bike menu item in the connection settings. If no e-bike is currently paired with the ROX 11.1, the ROX 11.1 immediately searches for available e-bikes. Please refer to the following list to find out whether your eBIKE is compatible with the ROX 11.1: ***LINK TO THE COMPATIBILITY LIST***

For pairing, the e-bike must be nearby (maximum approx. 50 m away) and switched on. Please refer to the operating instructions for your e-bike to find out whether further steps are required on the e-bike side to connect the e-bike to a display.

Only ONE e-bike can be connected to the ROX 11.1 EVO at a time.

If compatible e-bikes are found, a list of the e-bikes found is displayed after the search. Choose select the desired e-bike (+ or − button) and start pairing with the ▷ button. If the pairing is successful, you will be taken to the information view of the e-bike. Achieve this. You also if you select the **E-Bike menu** item in the connection settings with a paired e-bike. Here you can see various information about the e-bike and can disconnect the connection between the ROX 11.1 EVO and the e-bike.



KOMOOT

Select **Komoot** in the connection settings to establish a connection to the Komoot navigation service. You can also do this step when you have already started training using the **short cut menu**. When you select the menu item, the ROX 11.1 EVO asks for the Komoot Service.



To start navigation with Komoot, please follow the instructions in the ***CHAPTER NAVIGATING WITH THE ROX 11.1***.

Device settings

To change the settings of your device, select the Device menu item in the settings. The settings are described in the following table:

Device setting	Description
Language	Set the desired language for the device. You can choose from a total of 8 languages.
Units	Here you have the possibility to choose between 3 options: **1. Metric:** All units are output in the metric system (km, kg, meter, ° C) **2. Imperial:** All units are output in the imperial system (mi, lb, feet, ° F) **3. Individual:** You can specify for each unit the format in which you would like it to be displayed
Sounds	Here you can set the different tones of the ROX 11.1 EVO according to your requirements: **1. Navigation:** Navigation instructions (e.g. turning instructions) are accompanied by a tone if this setting is set to ON. **2. Smart Notifications:** If this setting is **ON**, a sound is played for each new Smart Notification. **3. System:** System tones such as warnings and acknowledgments are accompanied by a tone when this setting is set to ON. **4. Buttons:** Here you can switch the button tones **ON** or **OFF**.
Display	Here you can adjust the display brightness to your needs. The display regulates the brightness automatically depending on the ambient light. However, if you would like to select a lighter or darker basic setting, you can set this according to your requirements using the + or — button. Depending on the ambient light, you may not be able to detect any change here, as the ROX 11.1 EVO is already active at the lowest or highest level of the background lighting, for example. With this setting you shift the control range, i.e. which brightness level is automatically set for which ambient lighting. The higher you set the value, the brighter the display is in all situations, but the higher the power consumption.
Altitude	Under this setting menu you can choose between two settings: **1. Auto:** The altitude is calibrated with the GPS altitude at each start. **2. Manual:** There is no automatic altitude calibration, you have to do this manually before each training session. For manual calibration, you can choose between the current GPS altitude and enter the current altitude manually if you have more accurate altitude data.
Description	With this setting you can switch the value labels **ON** or **OFF** during training. If this setting is **OFF**, the page changes directly when the + or — button is pressed. If this setting is **ON**, the value is displayed for 2s in each field.
Smart	Here you can set whether you want to receive smart notifications from your smartphone or not. If this option is set to **ON**, your smartphone must be connected to the ROX 11.1 EVO and the notifications for the desired smartphone app must be activated.
Power	This setting is the energy-saving mode. You have 3 options for setting this: **1. On:** The energy-saving mode is permanently switched on. In energy-saving mode, the display brightness is reduced (to a maximum of 50%) and only GPS satellites are accessed (GLONASS and GALILEO are then not used). **2. Off:** The ROX 11.1 uses the entire display lighting range (up to 100%) and accesses all available satellite systems. This guarantees the best legibility and accuracy. **3. Auto:** The ROX 11.1 automatically switches to energy-saving mode if the battery condition is critical (<20%). When the battery is recharged, the energy-saving mode is no longer activated.
Set the clock	To set the time, first select the time format (12 or 24 hour format). Then you have to set the correct time zone and indicate whether daylight saving time is currently in your time zone. The ROX 11.1 EVO then automatically sets the correct time if a GPS satellite has been connected. Also di ese settings are synchronized with the smartphone.
Set the date	For the correct date, first select the date format. Here you can choose between dd.mm.yy and mm / dd / yy. Then set the current year, month and day. These settings are also synchronized with the smartphone.
Auto Off	If this setting is **ON**, the device switches off after 10 minutes of inactivity to save energy.
Fall detection	The ROX 11.1 EVO detects a fall by evaluating acceleration data and, if there is no reaction, can send an emergency message to your emergency contacts via the SIGMA RIDE app. If you do not want to use this function, deactivate the fall detection.
Reset device	With this menu item you can reset the device to the factory settings. **ATTENTION: All personal settings and data on the device will be lost.**

Set user data

The following table describes which user data you can set on the ROX 11.1 EVO and what influence these settings have on the use of the device and its data. To set the user information, select **Settings › User**.

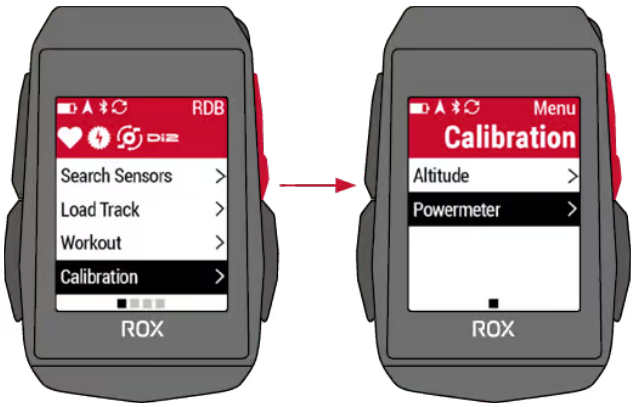
User settings	Description
Gender	Choose between male and female. This setting has, among other things, an influence on the calorie calculation.
Year	Enter your year of birth here. This also has an influence on e.g. the calorie calculation as well as the automatic calculation of the maximum heart rate.
Weight	Enter your current weight here. Weight is also important for calculating calories.
HR max	You have two options for setting the maximum heart rate: **1. Auto:** The maximum heart rate is calculated based on your age. **2. Manual:** You can enter your own value for the maximum heart rate.

Calibrate / set power meter

CALIBRATE

Most power meters have to be calibrated at regular intervals, sometimes before every trip, in order to determine correct readings.
Please refer to the manufacturer's instructions to find out whether this is the case with your power meter.

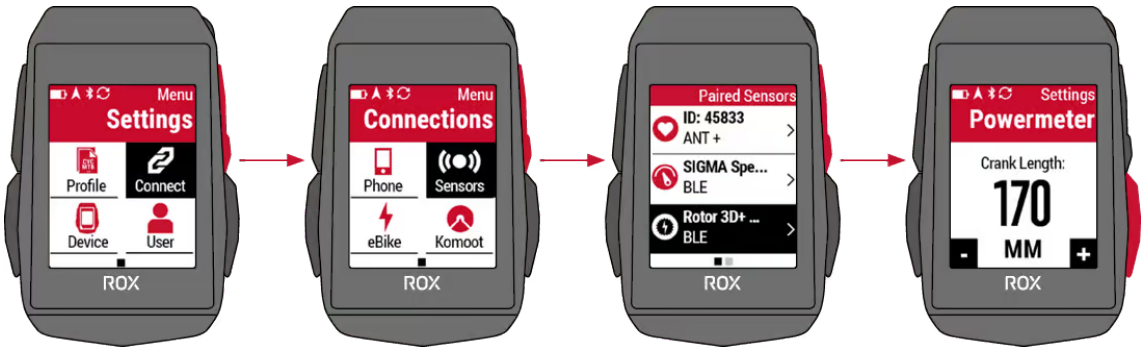
To calibrate the power meter, select the Calibrate menu item in the quick menu (started training). Then select Powermeter.
Then follow the instructions on the display of the ROX 11.1 EVO. **ATTENTION:** This menu item is only active when the power meter is connected.



SETTING THE POWER METER

You can make settings for your power meter directly on the ROX 11.1. To do this, switch to the main menu when the training is stopped or not started by pressing the button.

Then select **Settings › Connect › Sensors**. You will then find your power meter in the list of connected sensors. If this offers setting options for the ROX 11.1 EVO, you can switch to the settings menu of the power meter by pressing the button. Depending on the available setting options, you can then set the crank length or the automatic calibration, for example.



Make settings with the smartphone

You can also make all settings conveniently with your smartphone and the SIGMA RIDE app. To do this, connect your smartphone to the SIGMA RIDE app. Settings cannot be made in DATA CENTER.

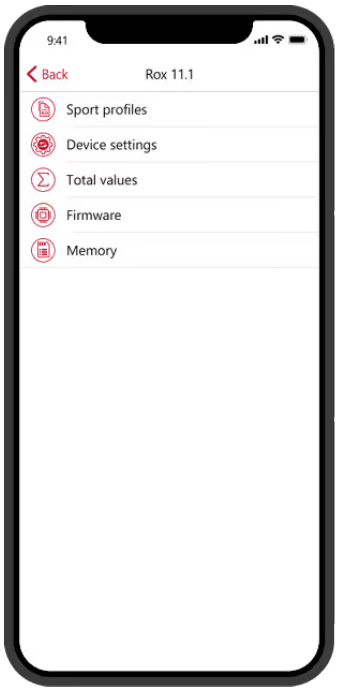
SET TRAINING VIEWS

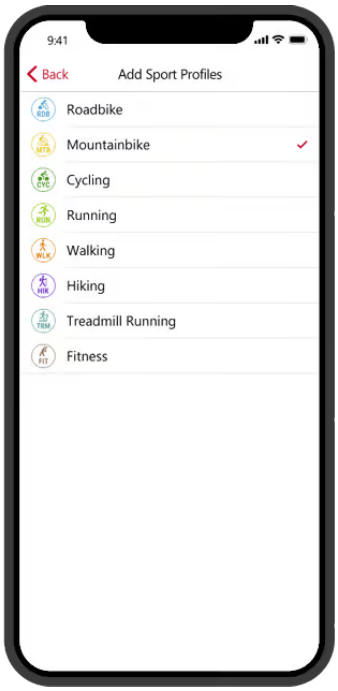
You can set the training views for each sport profile. You can create up to 6 training pages with a maximum of 6 values per page. The ROX 11.1 EVO is delivered with standardized settings and views. To adapt this to your needs, first connect the ROX 11.1 EVO to the SIGMA RIDE app. Then select the relevant sport

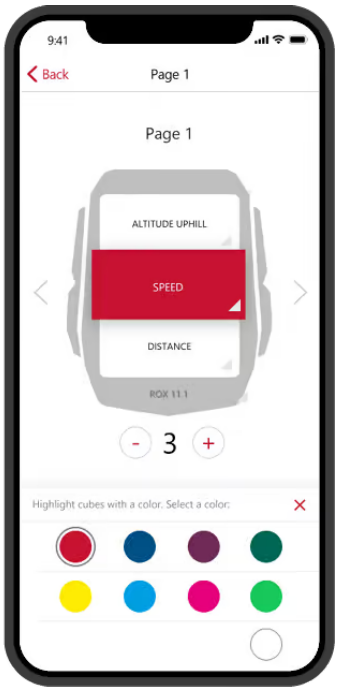
profile for which you want to change the views.

Then select one of the 8 views. By clicking on the corresponding field you can assign a value to the field that you would like to see in training. With a long press you can then assign a color. The value is then highlighted in color in the training.

In addition to the 6 training pages, you can also customize the views for navigation (track and turn-by-turn instructions) as well as the Lap and AutoLap pages.







Navigating with the ROX 11.1 EVO

With the ROX 11.1 EVO you have various options for navigating. These are described below.

TRACK NAVIGATION

Track navigation offers the option of transferring a previously planned route to the ROX 11.1 EVO and following it. To use a track on the ROX 11.1 EVO, you can either plan it in the SIGMA RIDE app or create it in another portal and import it into the SIGMA RIDE app. You can then either start the track directly from the app on the device or transfer it to the device for later navigation.

You have various options to start the track in the ROX 11.1:

1. Training has not yet started:

a. Press the button

b. Select the menu item **Tracks**

c. Select the desired track from the list of tracks

d. Here you can see more details about the track, select **Start Track** to load the track.

2. **2. Training has already started:**
   a. Press the button

   b. Select **Tracks** from the **Short Cut menu**
   c. Select the desired track from the list of tracks
   d. Here you can see more details about the track, select **Start Track** to load the track.

3. 3. Select the desired track in the SIGMA RIDE app. Select **"Start track"** to transfer the track to the ROX 11.1 EVO and start it. To do this, the ROX 11.1 EVO must be connected to the SIGMA RIDE app.

If the track is started on the ROX 11.1 EVO, another page is displayed next to the training pages:

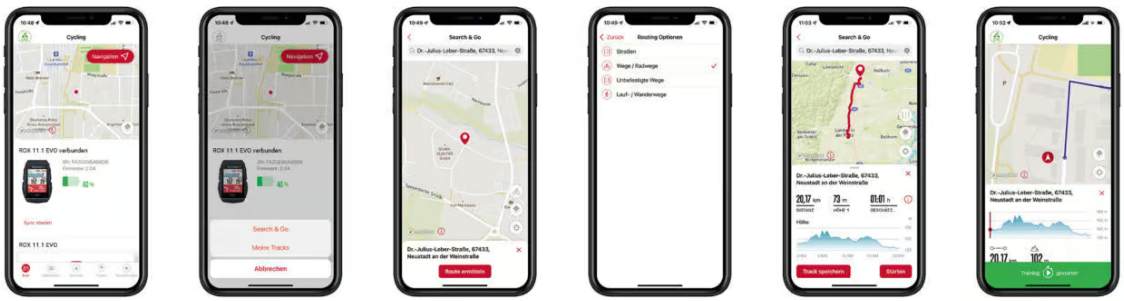


In addition, you can display the track as a permanent value on a training page, then set this according to the ***CHAPTER SETTING TRAINING VIEWS***. In this case, you will see the distance traveled if you have not currently loaded a track.

SEARCH & GO

The Search & Go function is a one-point navigation. With the help of this, you have the option of navigating to any destination quickly and easily. When the route is planned, the relevant turn-by-turn directions will be displayed on your ROX. The procedure is as follows:

- Connect SIGMA RIDE APP and ROX
- Navigation -> Search & Go
- Enter the destination or select a point on the map
- Determine route
  - Routing option can be selected over die bike icon
- Start the route or save it as a track



NAVIGATING WITH KOMOOT

Starting with firmware version 2.06 and the SIGMA RIDE app version 1.2.21 (Android & iOS), you can

Starting with firmware version 2.06 and the SIGMA RIDE app version 1.2.21 (Android & iOS), you can download your komoot track including turn-by-turn directions directly to your ROX via the RIDE app. As a result, the komoot connect service is no longer required and is removed.

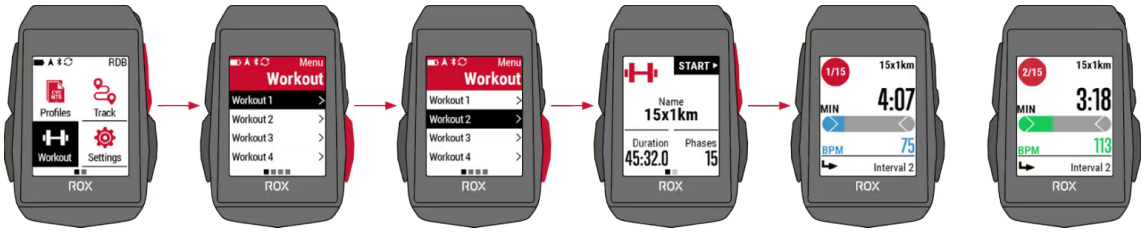
Note: Only with komoot premium, the planned komoot tours are synchronised with the SIGMA RIDE App.

VIDEO-TIP

Workouts with the ROX 11.1 EVO

To use workouts on the ROX 11.1 EVO, you must first create the workout using a compatible service. The ROX 11.1 EVO can import and display workouts in .FIT format. To do this, connect the ROX 11.1 EVO to the PC using the USB-C cable and then copy the .FIT workout file to the “Workouts” folder or import the .FIT workout file using the Ride app.

To start the workout, select the menu item **Workout** in the main menu (training not yet started) or in the short cut menu (training started). Then select the desired workout from the list and start it by pressing the ▷ button. When a workout is active, another training page with the workout-specific data is added to the existing training pages:



Once you have completed the workout, the workout page is hidden again. If you want to end the workout early, proceed as follows:

› Open the **short cut menu** by pressing the ⏻ button

› Select **End workout**

The workout phases are saved as markers in the training file. Thus, the workout data can be included in the training analysis.

More training functions

CRASH ALERT

The Crash Alert uses the acceleration data in the device to detect falls. You can store emergency contacts in the SIGMA RIDE app, which are then automatically notified in the event of a fall. If you have not saved any emergency contacts, your emergency information will be displayed on the device after the fall – you can also set this via the app.

The process for the crash alert is as follows:

1. Fall is recognized
2. The device signals a fall and gives the user 30 seconds to react
3. If there is no response, the SIGMA RIDE app is informed (if connected and set up) and the emergency information is shown on the display

4. Emergency contacts (if set up) are informed by SMS and receive the current GPS position.

If you do not want to use the crash alert, you can switch it off in the device settings.



SMART TRAINER (FE-C)

The ROX 11.1 EVO can connect to so-called smart trainers. These must support the ANT + standard FE-C in order to be compatible with the ROX 11.1 EVO. Please refer to the manufacturer's specifications to find out whether your device supports this standard.

To pair the trainer with the ROX 11.1 EVO, follow the same procedure as described in the **CHAPTER CONNECTION TO EXTERNAL SENSORS**. If the FE-C device is then connected in training mode, another page is added to the training pages. On this page you can see the currently set mode. Some trainers can receive commands from the ROX 11.1 and you can thus control the trainer's resistance via the ROX 11.1 EVO.

You have different modes to change the resistance of the FE-C device:

Mode	Description
Resistance (%)	You can adjust the resistance of the roller in 10% steps.
Target achievement	You can define a target performance.
Passif	Set this mode if the Smart Trainer is automatically controlled by another device (e.g. training software).

If you want to change the mode, you can change the FE-C mode in the **quick menu** (button in the started training).

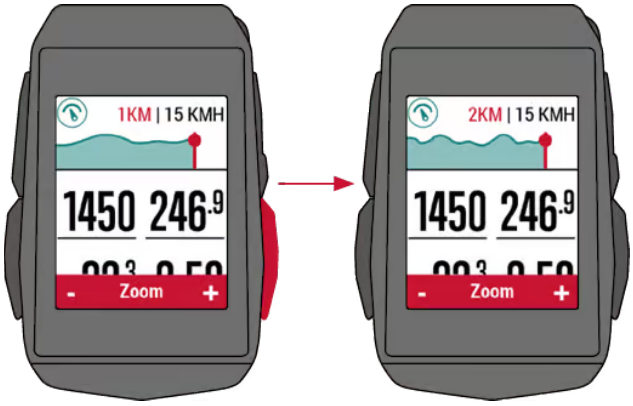
Then, for example, to increase the resistance, proceed as follows:
› Change to the **FE-C training page** by using the + or — button during training (only available with a connected Smart Trainer)
› Press and hold the + or — button until the small change menu appears
› You can now change the resistance with the + or — button

ZOOM FUNCTION

The ROX 11.1 EVO offers the option of showing certain representations of the training data in greater or less detail on the display.

You can zoom in to change the resolution of the elevation profile, for example. To do this, hold down the + or — button for 2 seconds during training. Then a **"ZOOM"** menu appears. Now you can set the zoom level with the + or — button. Then press the □ button to close the ZOOM menu again, or wait

5 seconds until the menu closes automatically.



You have the same option with the speed, cadence and power curve. Here, too, you can change the resolution using the zoom function.

INTERRUPT TRAINING

If you would like to interrupt the training for a longer period of time, e.g. for a longer lunch break, you can put the ROX 11.1 EVO into sleep mode. The power-intensive areas are then switched off (GPS / GLONASSS / GALILEO).



To do this, open the quick menu (in AutoPause or while training is in progress) and select the **Sleep mode** menu item. To wake up the device and continue training, press the button.

Evaluation of the training data on the device

You have various options for evaluating your training data on the ROX 11.1 EVO.

POST-WORKOUT SUMMARY

After each training you will receive a summary of the most important training values. This summary is dynamic and offers you a different number of pages depending on the sensors used and the data available. The device shows you a maximum of 5 summary pages.

On the first page you will find the SIGMA Performance Index, as well as the most important time and distance values. An explanation of the SIGMA Performance Index (SPI) can be found in the chapter ***SIGMA PERFORMANCE INDEX***.

You will also receive the following pages, depending on the data available:
› **Altitude measurement:** altitude profile, altitude difference uphill and downhill, maximum altitude, average temperature
› **Heart rate:** course, average, maximum and minimum HR,% of HRmax
› **Cadence:** history, average CAD, pedaling index and pedaling time
› **Performance:** History, Average Performance, Normalized Power (TM), TSS (TM), IF (TM)

The available values for the summaries cannot be changed. If you would like to analyze further training data after training, please use the SIGMA RIDE app.



ACTIVITY LIST

You can view the same summary for the training at any time under **Storage › Activities**. All training units available on the device are displayed here.

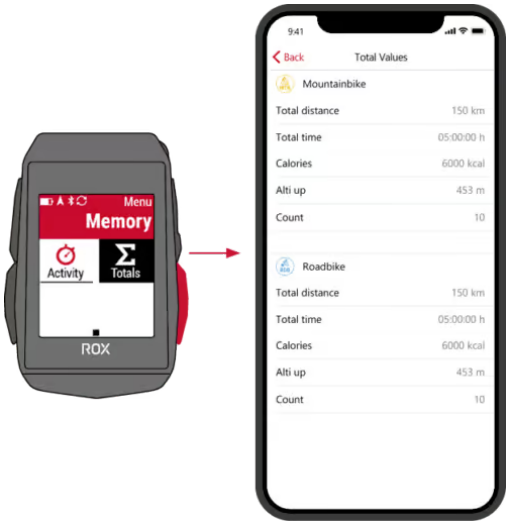


TOTAL VALUES

Select **Storage › Total** to see an overview of all exercise data on the device. Here you can get:
› A complete overview of all sport profiles
› A summary of the following data for each sport profile:
– Distance
– Training time

– Elevation gain

You can also set the total values again via the SIGMA RIDE app, e.g. after resetting the device firmware.



Evaluation of the training data using software

SIGMA RIDE APP

With the SIGMA RIDE app you can carry out an extensive evaluation of your training data. Different training parameters, graphics, etc. are displayed for each training unit. You can also export your training data to third-party portals directly from the SIGMA RIDE app. Please refer to the sharing menu of the app to find out which portals are available for this. To view previous training units, switch to the activity list and select the relevant unit.

GET IT ON Google Play

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SIGMA DATA CENTER

In the SIGMA DATA CENTER you have even more in-depth analysis options for your training data. In addition to the functions in the SIGMA RIDE app, you can delve even deeper into the data here as well as export the data in other formats (e.g. .csv). In DATA CENTER you also have more detailed options for planning a track.

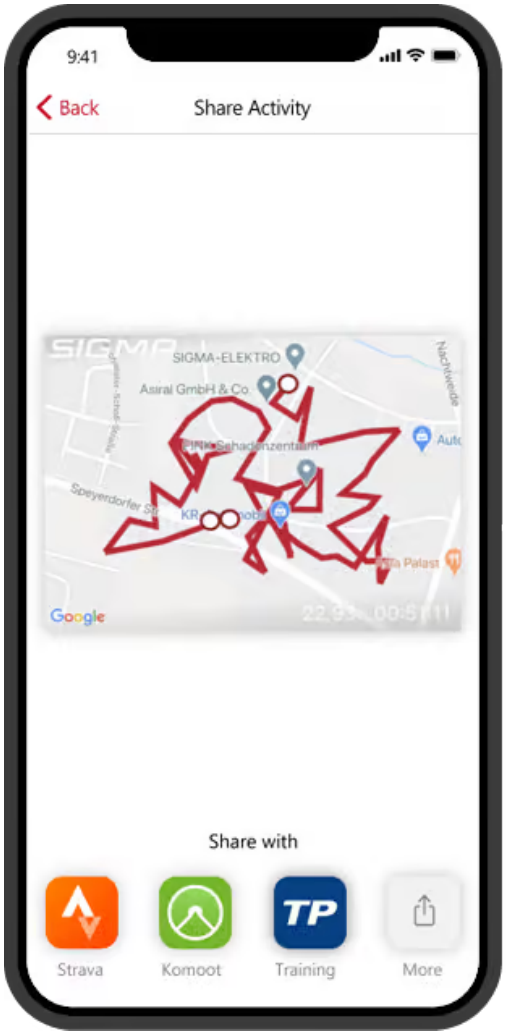
SIGMA-DOWNLOAD.COM

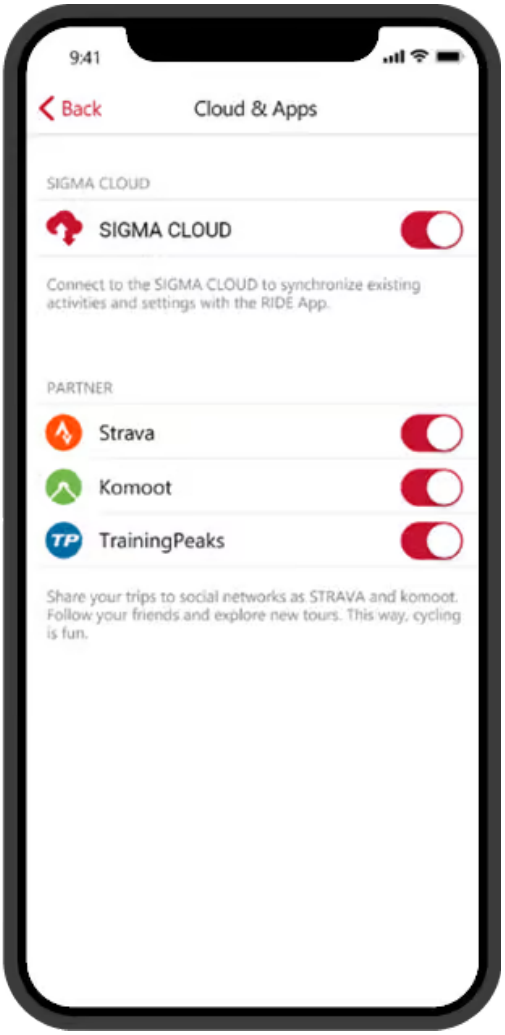
THIRD PARTY PROVIDERS

The training data of the ROX 11.1 EVO is available as a .FIT file. Therefore all portals that use this standard can read the data of the ROX 11.1 EVO. You can export to relevant third-party providers using the SIGMA RIDE app. If the portal you want is not available for automatic synchronization, you also have the option of uploading the .FIT files directly to the third-party provider. To do this, you have to connect the ROX 11.1 EVO to the PC using a USB-C cable. The training data can then be found in the Activities folder.

Furthermore, the ROX 11.1 EVO can also process e.g. workout data from third-party providers such as

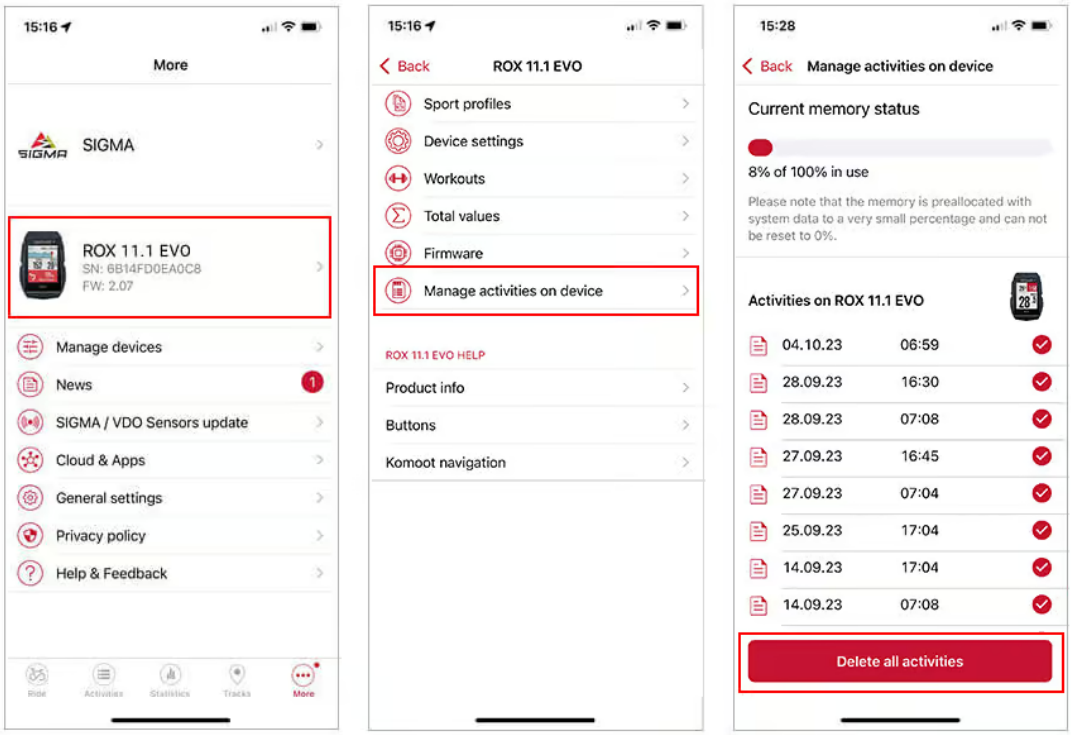
training peaks.





ROX 11.1 EVO Activities Clear Memory

To reset the Activity memory of your device, please follow these steps:



Note: No personal setting will be deleted and all activities will remain in the RIDE App

SIGMA Performance Index (SPI)

The SIGMA Performance Index, or SPI for short, offers you an objective assessment of your training performance.
The value is made up of 3 different variables:
› The meters in altitude uphill
› The total distance of the training
› The average speed

If these values increase, the SPI also increases. If you look at your SPI values over time, you can see a clear increase, stagnation or deterioration in performance. The SPI does not consider any individual data such as heart rate or performance. The value is given without a unit and can have values between 1 and 9999, with most values in the range from 1-600.

These examples will give you a feel for the SPI:

Summary of the training		
	Training 1	Training 2
Distance	42,81 km	26,84 km
Average speed	28,46 km/h	14,62 km/h
Elevation gain uphill	466 m	499 m

SPI	378	107

The following examples illustrate the meaning and interpretation of the SPI:
› In a cycle race, all athletes drive the same route. The one with the highest SPI wins. The altitude and distance are the same for all athletes, only the highest average speed makes the difference here.

› If you drive the same route with the same average speed but less elevation gain, the SPI will decrease because the elevation gain is taken into account in the calculation.
› If two athletes drive the same distance at the same speed, they have the same SPI value, even if heart rate and performance may be different.

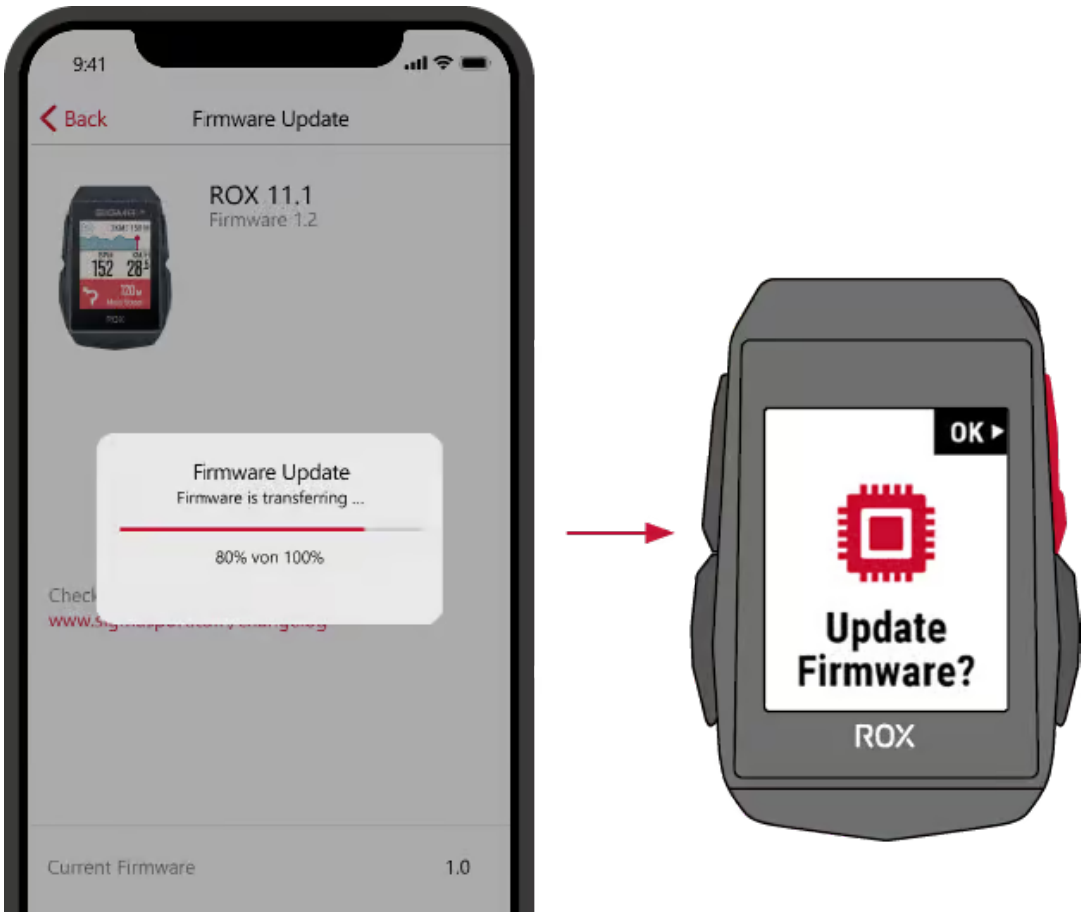
Firmware update

You have the following options to update the firmware of the device:
› Use of the SIGMA RIDE app

You can see the currently installed firmware version in the main menu (training not started). Select the Info menu item. On the first page you can see the current version of the device firmware.

You can find out whether a new update is available for your device when you connect the device to the SIGMA RIDE app. If there is new firmware, you will receive a message in the app and can then transfer it to the ROX 11.1 accordingly.

Once the update has been transferred to the ROX 11.1 EVO, you will receive a message on the ROX 11.1 EVO. Confirm this if you want to install the update now. Your settings will be retained after the installation.





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Technical information

SPECIFICATIONS

RF interface	Frequency range	Maximum RF output power	Amount of channels
BLE	2400 – 2483 MHz	1 dBm nominal	40
ANT+	2400 – 2480 MHz	1 dBm nominal	77
GPS	1575.42 MHz	N/A receiver only	N/A
GLONASS	1602 MHz	N/A receiver only	N/A
GALILEO (if used)	1575.42 MHz	N/A receiver only	N/A

Temperature ranges	ROX 11.1 EVO	Sensor Speed/Cadence	Chest Strap R1Duo
Operating temperatur	-10 °C – +60 °C	-10 °C – +60 °C	-10 °C – +60 °C

The ROX 11.1 EVO is dust and water resistant according to IP67.

We recommend to charge the device at room temperature 23°C ± 5°C

CLEANING THE DEVICE

We recommend cleaning the ROX 11.1 EVO at regular intervals and when it is heavily soiled. Please only use mild detergents for this. Regular cleaning of the device is necessary to ensure that the height sensor, for example, functions optimally. To clean the height sensor, soak the ROX 11.1 in clear water for a few minutes and then rinse the device again under running water. If it is very dirty, dirt can block the buttons. In this case, please follow the same instructions as for cleaning the height sensor.

! DANGER! Under no circumstances insert objects into the holes in the height sensor (on the back of the device) as this could damage the interior of the ROX 11.1 EVO.

EU DECLARATION OF CONFORMITY

We, SIGMA-ELEKTRO GmbH, Dr.-Julius-Leber-Str. 15, D-67433 Neustadt / Weinstraße declare that the ROX 11.1 EVO bike computer and the SPEED, CADENCE and R2 Duo transmitters, when used as intended, meet the basic requirements of RED Directive 2014/53 / EU and RoHS Directive 2011/65 / EU.

The CE declaration can be found at: **CE.SIGMASPORT.COM/ROXIIIEVO**

UK DECLARATION OF CONFORMITY

We, SIGMA-ELEKTRO GmbH, declare that the equipment above has been tested in our facility and found compliance with the requirement limits of applicable standards, in accordance with the Radio Equipment Regulations 2017 and the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified

configurations represented herein are true and accurate under the standards herein specified.

The UK declaration can be found at: **UKCA.SIGMASPORT.COM/ROXIII**

GUARANTEE CONDITIONS

We are liable to our respective contractual partner for defects according to the statutory regulations. Batteries are excluded from the warranty. In the event of a warranty, please contact the dealer from whom you bought your bike computer. You can also send the bike computer with your proof of purchase and all accessories to the address below. Please ensure that there is sufficient franking.

Please note that our ROX devices have only been tested in the laboratory and in the field in conjunction with original SIGMA mounting systems. Accordingly, we can only grant guarantee or warranty claims for damage resulting from the connection of the bike computer to a mounting system for devices connected to original SIGMA mounting systems.

SIGMA-ELEKTRO GmbH
Dr.-Julius-Leber-Strasse 15
67433 Neustadt / Weinstrasse
Germany
Email: kundenservice@sigma.bike

If you have justified warranty claims, you will receive a replacement device. There is only an entitlement to the current model at the time. The manufacturer reserves the right to make technical changes.

DISPOSAL

Batteries must not be disposed of with household waste (Battery law)!
Please bring the batteries to a designated handover point or to a retailer for disposal.

Electronic devices must not be disposed of with household waste. Please hand the device over to a designated disposal point or to a retailer.

Before disposal, all personal data must be deleted from the device.



LI =
Lithium Ionen

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