

# **SUUNTO AMBIT2**

## **USER GUIDE**

1 SAFETY .....	7
2 Welcome .....	9
3 Display icons and segments .....	10
4 Using buttons .....	11
4.1 Using backlight and button lock .....	12
5 Getting started .....	14
6 Customizing your Suunto Ambit2 .....	15
6.1 Connecting to Movescount .....	15
6.2 Updating your Suunto Ambit2 .....	16
6.3 Custom sport modes .....	17
6.4 Suunto Apps .....	18
6.5 Inverting display .....	18
6.6 Adjusting display contrast .....	19
7 Using time mode .....	21
7.1 Changing time settings .....	21
7.2 Using GPS timekeeping .....	25
8 Navigation .....	27
8.1 Using GPS .....	27
8.1.1 Getting GPS signal .....	27
8.1.2 GPS grids and position formats .....	28
8.2 Checking your location .....	30
8.3 POI navigation .....	31
8.3.1 Adding your current location as a point of interest (POI) .....	31

8.3.2 Adding point of interest (POI) coordinates manually .....	33
8.3.3 Navigating to a point of interest (POI) .....	36
8.3.4 Deleting a point of interest (POI) .....	39
8.4 Route navigation .....	41
8.4.1 Adding a route .....	41
8.4.2 Navigating a route .....	42
8.4.3 During navigation .....	46
8.4.4 Deleting a route .....	48
9 Using Alti & Baro mode .....	49
9.1 How Alti & Baro works .....	49
9.1.1 Getting correct readings .....	50
9.1.2 Getting incorrect readings .....	50
9.2 Matching profile to activity .....	51
9.2.1 Setting profiles .....	52
9.2.2 Setting reference values .....	52
9.3 Using <b>Altimeter</b> profile .....	54
9.4 Using <b>Barometer</b> profile .....	55
9.5 Using <b>Automatic</b> profile .....	56
9.6 FusedAlti™ .....	58
10 Using 3D compass .....	61
10.1 Calibrating compass .....	61
10.2 Setting declination value .....	63
11 Timers .....	65
11.1 Activating and deactivating stopwatch .....	65


11.2 Using stopwatch .....	66
11.3 Countdown timer .....	67
12 Using sport modes .....	69
12.1 Sport modes .....	69
12.2 Additional options in sport modes .....	70
12.3 Using heart rate belt .....	71
12.4 Putting on heart rate belt .....	72
12.5 Starting exercise .....	74
12.6 During exercise .....	76
12.6.1 Recording tracks .....	76
12.6.2 Making laps .....	76
12.6.3 Recording altitude .....	77
12.6.4 Setting altitude during exercise .....	80
12.6.5 Using compass during exercise .....	80
12.6.6 Using interval timer .....	81
12.6.7 Navigating during exercise .....	83
12.6.8 Finding back during exercise .....	84
12.6.9 Autopause .....	85
12.7 Viewing logbook after exercise .....	87
12.7.1 Dynamic exercise summary .....	88
12.7.2 Recovery time .....	89
12.8 Multisport training .....	90
12.8.1 Switching sport modes manually during exercise ..	90
12.8.2 Using preconfigured multisport mode .....	91
12.9 Swimming mode .....	92


12.9.1 Indoor swimming .....	93
12.9.2 Outdoor swimming .....	94
12.9.3 Teaching swimming styles to Suunto Ambit2 .....	95
12.9.4 Swimming drills .....	98
13 FusedSpeed .....	99
Use example: Running and biking with FusedSpeed™ .....	101
14 Adjusting settings .....	102
14.1 Service menu .....	106
14.2 Changing language .....	107
15 Pairing POD/heart rate belt .....	108
15.1 Calibrating PODs .....	111
16 Icons .....	113
POI icons .....	114
17 Terminology .....	115
18 Care and maintenance .....	118
18.1 Water resistance .....	118
18.2 Charging the battery .....	119
18.3 Replacing HR belt battery .....	121
19 Technical specification .....	122
General .....	122
Memory .....	122
Radio receiver .....	122
Barometer .....	123
Altimeter .....	123
Thermometer .....	123

Chronograph .....	123
Compass .....	123
GPS .....	123
19.1 Trademark .....	124
19.2 FCC compliance .....	124
19.3 IC .....	124
19.4 CE .....	124
19.5 Copyright .....	125
19.6 Patent notice .....	125
19.7 Warranty .....	125
<b>Index .....</b>	<b>129</b>


# 1 SAFETY

## Types of safety precautions


 **WARNING:** - is used in connection with a procedure or situation that may result in serious injury or death.

 **CAUTION:** - is used in connection with a procedure or situation that will result in damage to the product.

 **NOTE:** - is used to emphasize important information.

 **TIP:** - is used for extra tips on how to utilize the features and functions of the device.

## Safety precautions

 **WARNING:** ALLERGIC REACTIONS OR SKIN IRRITATIONS MAY OCCUR WHEN PRODUCT IS IN CONTACT WITH SKIN, EVEN THOUGH OUR PRODUCTS COMPLY WITH INDUSTRY STANDARDS. IN SUCH EVENT, STOP USE IMMEDIATELY AND CONSULT A DOCTOR.

 **WARNING:** ALWAYS CONSULT YOUR DOCTOR BEFORE BEGINNING AN EXERCISE PROGRAM. OVEREXERTION MAY CAUSE SERIOUS INJURY.

 **WARNING:** ONLY FOR RECREATIONAL USE.

 **WARNING:** DO NOT ENTIRELY RELY ON THE GPS OR BATTERY LIFETIME, ALWAYS USE MAPS AND OTHER BACKUP MATERIAL TO ENSURE YOUR SAFETY.

 **CAUTION:** DO NOT APPLY SOLVENT OF ANY KIND TO THE PRODUCT, AS IT MAY DAMAGE THE SURFACE.

 **CAUTION:** DO NOT APPLY INSECT REPELLENT ON THE PRODUCT, AS IT MAY DAMAGE THE SURFACE.

 **CAUTION:** DO NOT THROW THE PRODUCT AWAY, BUT TREAT IT AS ELECTRONIC WASTE TO PRESERVE THE ENVIRONMENT.

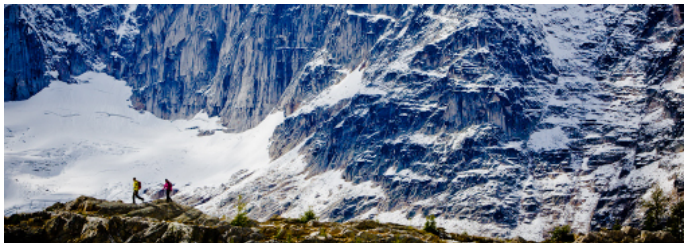
 **CAUTION:** DO NOT KNOCK OR DROP THE DEVICE, AS IT MAY BE DAMAGED.



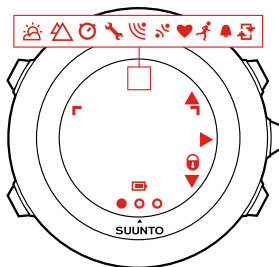
## 2 WELCOME


















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Suunto Ambit2 is the GPS for explorers and athletes. All you need for outdoor sports – navigation, speed, heart rate, altitude, weather conditions and features for running, biking and swimming. Thousands of Suunto Apps available to add new functionalities to your watch. Packed in a glass fiber reinforced casing with a battery life of 16/50 hours, Suunto Ambit2 is ready for any adventure.



### 3 DISPLAY ICONS AND SEGMENTS

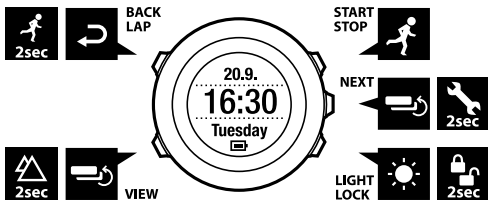


- |  |   |
|--|---|
|  barometer       |  interval timer    |
|  altimeter       |  button lock       |
|  chronograph     |  battery           |
|  settings        |  current screen    |
|  signal strength |  button indicators |
|  pairing         |  up / increase     |
|  heart rate      |  next / confirm    |
|  sport mode      |  down / decrease   |
|  alarm           |   |

For a complete list of icons in Suunto Ambit2, see *Chapter 16 Icons* on page 113.

## 4 USING BUTTONS

Suunto Ambit2 has five buttons which allow you to access all the features.



[Start Stop]:

- access the start menu
- pause or resume an exercise or timer
- keep pressed to stop and save an exercise
- increase a value or move up in the settings

[Next]:

- change between displays
- keep pressed to access/exit the options menu
- keep pressed to access/exit the options menu in sport modes
- accept a setting

[Light Lock]:

- activate the backlight
- keep pressed to lock/unlock the buttons
- decrease a value or move down in the settings

[View]:

- change views in **TIME** mode and during exercise
- keep pressed to access altitude reference options

[Back Lap]:

- return to the previous step
- add a lap during exercise
- keep pressed to switch to the next sport mode during a multisport exercise



**TIP:** When changing the values, you can increase the speed by keeping [Start Stop] or [Light Lock] pressed until the values start to scroll faster.


## 4.1 Using backlight and button lock

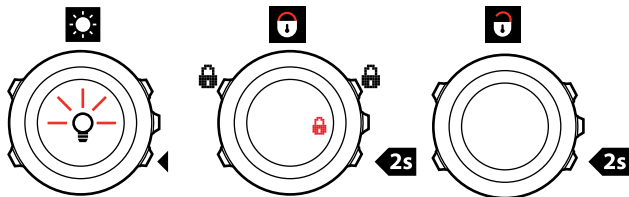
You can set the backlight to **Normal**, **Off**, **Toggle** or **Night** mode. For information on the backlight settings, see *Chapter 14 Adjusting settings on page 102*.


To activate the backlight:

- In **Normal** mode, press [Light Lock] to activate the backlight. The backlight stays on for a few seconds.
- In **Toggle** mode, press [Light Lock] to activate the backlight. The backlight stays on until you press [Light Lock] again.
- In **Night** mode, press any button to activate the backlight.

You can set the button lock to **All buttons** or **Actions only** separately for **TIME** mode and sport modes. For more information on the button lock settings, see *Chapter 14 Adjusting settings on page 102*.

Keep [Light Lock] pressed to lock or unlock the buttons. When the buttons are locked,  is shown on the display.




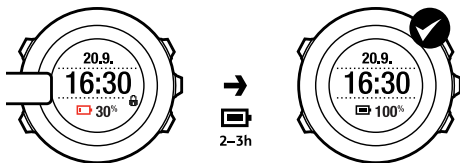
 **TIP:** Select **Actions only** for sport modes to avoid accidentally starting or stopping your log. When the [Back Lap] and [Start Stop] buttons are locked, you can still activate the backlight by pressing [Light Lock], change between the displays by pressing [Next] and views by pressing [View].

## 5 GETTING STARTED

Start by charging the battery. Your Suunto Ambit2 wakes up automatically when you attach it to your computer using the supplied USB cable. The device can also be woken up by attaching it to a mains socket using the optional Suunto wall charger.

Fully charging an empty battery takes about 2-3 hours. First time charging may take longer. During charging with the USB cable the buttons are locked.


 **NOTE: Battery full** notification is displayed when the charging is complete.



## 6 CUSTOMIZING YOUR SUUNTO AMBIT2

### 6.1 Connecting to Movescount

*Movescount.com* is your free personal diary and online sports community that offers you a rich set of tools to manage your daily activities and create engaging stories about your experiences. Movescount allows you to transfer your recorded exercise logs from your Suunto Ambit2 to Movescount and customize the device to best meet your needs.

 **TIP:** *Connect to Movescount to get the latest software to your Suunto Ambit2, in case there is an update available.*

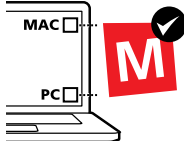
Start by installing Moveslink:


1. Go to [www.movescount.com/moveslink](http://www.movescount.com/moveslink).
2. Download, install and activate the latest version of Moveslink.


1.



2.



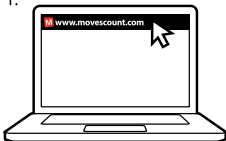
 **NOTE:** *A Moveslink icon is visible on your computer's display when Moveslink is active.*

 **NOTE:** Moveslink is compatible with PC (Windows XP, Windows Vista, Windows 7) and Mac (Intel-based, running OS X version 10.6 or later).

To register to Movescount:


1. Go to [www.movescount.com](http://www.movescount.com).
2. Create your account.

1.




2.



 **NOTE:** The first time your Suunto Ambit2 is connected to Movescount all information (including the device settings) is transferred from the device to your Movescount account. The next time you connect your Suunto Ambit2 to your Movescount account, the changes in settings and sport modes you made in Movescount and in the device will be synchronized.

## 6.2 Updating your Suunto Ambit2


You can update your Suunto Ambit2 software automatically in Movescount.

 **NOTE:** When you update your Suunto Ambit2 software, all the existing logs are automatically moved to Movescount and deleted from the device.



To update your Suunto Ambit2 software:

1. Go to [www.movescount.com/moveslink](http://www.movescount.com/moveslink) and install the Moveslink application.
2. Connect your Suunto Ambit2 to your computer with the Suunto USB cable. The Moveslink application will automatically check for software updates. If an update is available, your device will be updated.

 **NOTE:** *You can use the Moveslink application without registering to Movescount. However, Movescount greatly extends the usability, personalization and settings options of your Suunto Ambit2. It also visualizes recorded tracks and other data from your activities. Therefore, it is recommended to create a Movescount account in order to utilize the full potential of the device.*

## 6.3 Custom sport modes

In addition to the default sport modes stored in the device (see *Section 12.1 Sport modes on page 69*), you can create and edit custom sport modes in Movescount.

A custom sport mode can contain 1 to 8 different sport mode displays. You can choose which data appears on each display from a comprehensive list. You can customize, for example, sports-specific heart rate limits, autolap distance, or the recording rate to optimize accuracy and battery duration. You can transfer up to 10 different custom sport modes created in Movescount to your Suunto Ambit2. Only one custom sport mode can be active at a time.

 **TIP:** *You can also edit the default sport modes in Movescount.*

## 6.4 Suunto Apps

Suunto Apps allow you to further customize your Suunto Ambit2. Visit Suunto App Zone in Movescount to find Apps, such as various timers and counters, available for your use. If you cannot find what you need, create your own App with Suunto App Designer. You can create Apps, for example, for calculating your estimated marathon result, or the slope grade of your skiing route.

To add Suunto Apps to your Suunto Ambit2:

1. Go to the **PLAN & CREATE** section in Movescount community and select **Apps** to browse existing Suunto Apps. To create your own App, go to the **PLAN & CREATE** section of your profile and select **App Designer**.
2. Add Suunto App to a sport mode. Connect your Suunto Ambit2 to your Movescount account to synchronize Suunto App to the device. The added Suunto App will show the result of its calculation while you exercise.

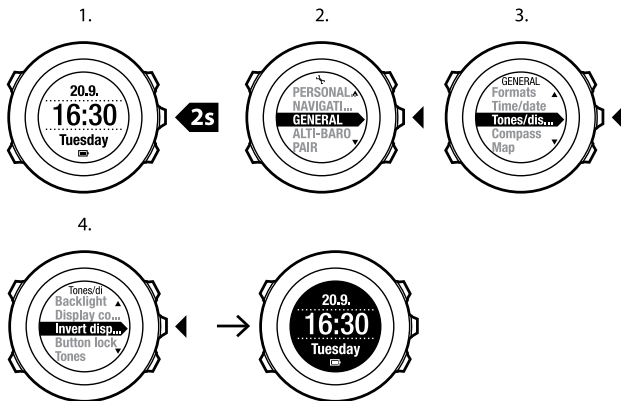
 **NOTE:** *You can add up to five Suunto Apps to each sport mode.*

## 6.5 Inverting display

You can invert the display of your Suunto Ambit2 from light to dark or vice versa.

To invert the display in the settings:

1. Keep [Next] pressed to enter the options menu.
2. Press [Next] to enter the **GENERAL** settings.
3. Press [Next] to enter **Tones/display**.
4. Scroll to **Invert display** with [Start Stop] and accept with [Next].



## 6.6 Adjusting display contrast

You can increase or decrease the display contrast of your Suunto Ambit2. To adjust the display contrast in the settings:

1. Keep [Next] pressed to enter the options menu.
2. Press [Next] to enter the **GENERAL** settings.
3. Press [Next] to enter **Tones/display**.
4. Scroll to **Display contrast** with [Light Lock] and enter with [Next].
5. Increase the contrast with [Start Stop], or decrease it with [Light Lock].
6. Go back to the settings with [Back Lap], or keep [Next] pressed to exit the options menu.

1.

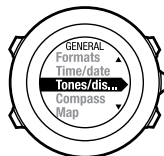


2s

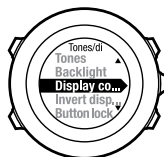
2.



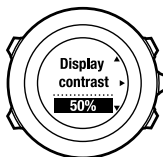
3.



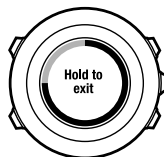
4.



5.



6.



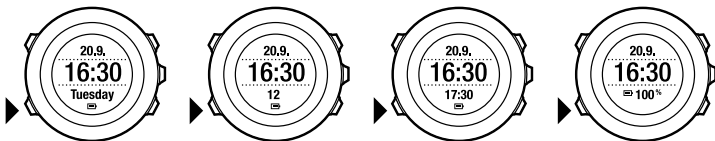
2s

## 7 USING TIME MODE

**TIME** mode includes time measurement functions.

**TIME** mode shows you the following information:

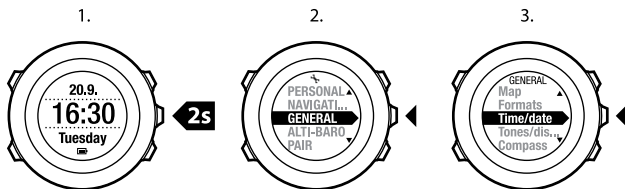
- top row: date
- middle row: time
- bottom row: toggle between weekday, seconds, dual time and battery level with [View].



### 7.1 Changing time settings

To access the time settings:

1. Keep [Next] pressed to enter the options menu.
2. Press [Next] to enter **GENERAL**.
3. Scroll to **Time/date** using [Start Stop] and enter with [Next].

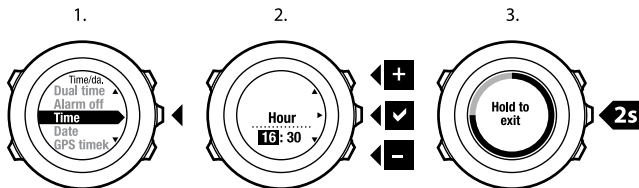


## Setting time

The current time is shown in the middle row of the **TIME** mode display.

To set the time:

1. In the options menu, go to **GENERAL**, then to **Time/date** and **Time**.
2. Change the hour and minute values with [Start Stop] and [Light Lock]. Accept with [Next].
3. Go back to the settings with [Back Lap], or keep [Next] pressed to exit the options menu.

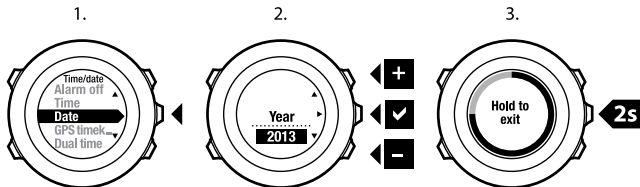


## Setting date

The current date is shown on the top row of the **TIME** mode display.

To set the date:

1. In the options menu, go to **GENERAL**, then to **Time/date** and **Date**.
2. Change the year, month and day values with [Start Stop] and [Light Lock]. Accept with [Next].
3. Go back to the settings with [Back Lap], or keep [Next] pressed to exit the options menu.

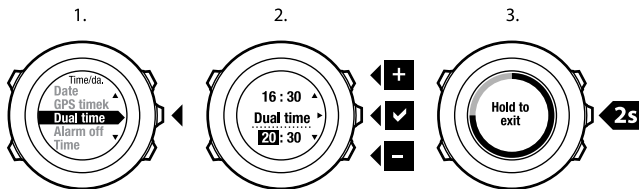


## Setting dual time

Dual time allows you to keep track of the current time in a second time zone, for example, when travelling. Dual time is displayed on the bottom row of the **TIME** mode display and you can access it by pressing [View].

To set the dual time:

1. In the options menu, go to **GENERAL**, then to **Time/date** and **Dual time**.
2. Change the hour and minute values with [Start Stop] and [Light Lock]. Accept with [Next].
3. Go back to the settings with [Back Lap], or keep [Next] pressed to exit the options menu.

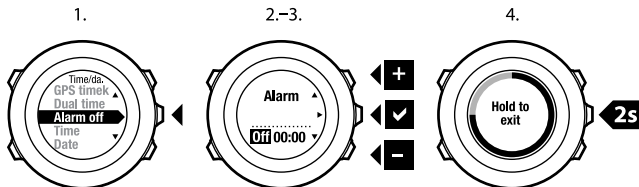


## Setting alarm

You can use your Suunto Ambit2 as an alarm clock.

To access the alarm clock and set the alarm:

1. In the options menu, go to **GENERAL**, then to **Time/date** and **Alarm**.
2. Set the alarm on or off with [Start Stop] or [Light Lock]. Accept with [Next].
3. Set the hours and minutes with [Start Stop] and [Light Lock]. Accept with [Next].
4. Go back to the settings with [Back Lap], or keep [Next] pressed to exit the options menu.

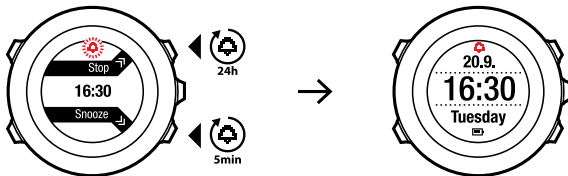



When the alarm is switched on, the alarm symbol is shown on most of the displays.



When the alarm sounds, you can:


- Select **Snooze** by pressing [Light Lock]. The alarm stops and restarts every 5 minutes until you stop it. You can snooze up to 12 times for a total of 1 hour.
- Select **Stop** by pressing [Start Stop]. The alarm stops and restarts the same time the following day, unless you switch the alarm off in the settings.




 **NOTE:** When snoozing, the alarm icon blinks in **TIME** mode.

## 7.2 Using GPS timekeeping

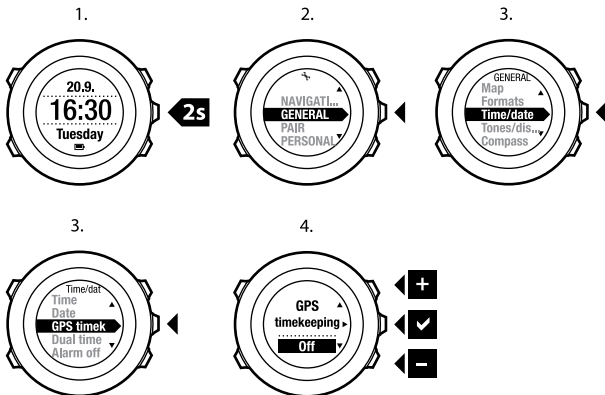
GPS timekeeping corrects the offset between your Suunto Ambit2 and the GPS time. GPS timekeeping corrects the time automatically once a day, or after you have adjusted the time manually. Also the dual time is corrected.

 **NOTE:** GPS timekeeping corrects the minutes and seconds, but not the hours.

 **NOTE:** GPS timekeeping corrects the time accurately, if it is less than 7.5 minutes wrong. If the time is wrong more than that, GPS timekeeping corrects it to the closest 15 minutes.

GPS timekeeping is activated by default. To deactivate it:

1. Keep [Next] pressed to enter the options menu.
2. Press [Next] to enter **GENERAL**.
3. Scroll to **Time/date** and then to **GPS timekeeping** using [Start Stop]. Enter with [Next].
4. Set GPS timekeeping **Off** with [Start Stop] or [Light Lock]. Accept with [Next].



## 8 NAVIGATION

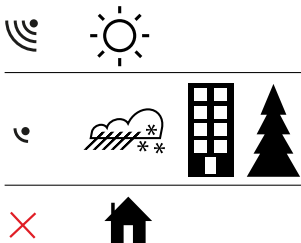
### 8.1 Using GPS


Suunto Ambit2 uses Global Positioning System (GPS) in determining your current position. GPS incorporates a set of satellites that orbit the Earth at an altitude of 20,000 km at the speed of 4 km/s.


The built-in GPS receiver in Suunto Ambit2 is optimized for wrist use and receives data from a very wide angle.

#### 8.1.1 Getting GPS signal

Suunto Ambit2 activates GPS automatically when you select a sport mode with the GPS functionality, determine your location, or start navigating.



 **NOTE:** When you activate GPS for the first time, or have not used it for a long time, it might take longer than usual to get a GPS fix. Subsequent GPS starts will take less time.

 **TIP:** To minimize GPS initiation time, hold the device steady with GPS facing up and make sure you are in an open area so that the device has a clear view of the sky.

## **Troubleshooting: No GPS signal**

- For an optimal signal, point the GPS part of the device upwards. The best signal can be received in an open area with a clear view of the sky.
- The GPS receiver usually works well inside tents and other thin covers. However, objects, buildings, dense vegetation or cloudy weather can reduce the GPS signal reception quality.
- GPS signal does not penetrate any solid constructions or water. Therefore do not try to activate GPS for example inside buildings, caves, or under water.
- To recover from GPS failures, reset GPS (see *Section 14.1 Service menu on page 106*).

## **8.1.2 GPS grids and position formats**


Grids are lines on a map that define the coordinate system used on the map. Position format is the way the GPS receiver's position is displayed on the device. All the formats relate to the same location, they only express it in a different way. For information on changing the position format, see *Chapter 14 Adjusting settings on page 102*.

You can select the format from the following grids:

- latitude/longitude is the most commonly used grid and has three different formats:
  - **WGS84 Hd.d°**
  - **WGS84 Hd°m.m'**
  - **WGS84 Hd°m's.s**
- **UTM** (Universal Transverse Mercator) gives a two-dimensional horizontal position presentation.
- **MGRS** (Military Grid Reference System) is an extension of UTM and consists of a grid zone designator, 100,000-meter square identifier and a numerical location.

Suunto Ambit2 also supports the following local grids:

- **British (BNG)**
- **Finnish (ETRS-TM35FIN)**
- **Finnish (KKJ)**
- **Irish (IG)**
- **Swedish (RT90)**
- **Swiss (CH1903)**
- **UTM NAD27 Alaska**
- **UTM NAD27 Conus**
- **UTM NAD83**

 **NOTE:** *Some grids cannot be used in the areas north of 84°N and south of 80°S, or outside the countries that they are intended for.*

## 8.2 Checking your location

Suunto Ambit2 allows you to check the coordinates of your current location using GPS.

To check your location:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **NAVIGATION** using [Start Stop] and enter with [Next].
3. Press [Next] to select **Location**.
4. The device starts searching for a GPS signal and displays **GPS found** after acquiring the signal. After that your current coordinates are shown on the display.

1.



2.



3.



4.





**TIP:** You can also check your location while you are recording an exercise by keeping [Next] pressed to access the options menu.

## 8.3 POI navigation

### 8.3.1 Adding your current location as a point of interest (POI)

Suunto Ambit2 allows you to save your current location as a POI. You can navigate to a saved POI anytime, for example, during your exercise.

You can store up to 100 POIs in the device. Note that also routes take up this quota. For example, if you have a route with 60 waypoints, you can additionally store 40 POIs in the device.

You can select a POI type (icon) and POI name from a pre-defined list, or freely name the POIs in Movescount. The pre-defined icons are listed in *Chapter 16 Icons on page 113*.

To save your current location as a POI:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **NAVIGATION** using [Start Stop] and enter with [Next].
3. Press [Next] to select **Location**.
4. The device starts searching for a GPS signal and displays **GPS found** after acquiring the signal. Your current coordinates are now shown on the display.
5. Press [Start Stop] to save the location.
6. Select a suitable POI type for the location. Scroll through the POI types with [Start Stop] or [Light Lock]. Select a POI type with [Next].
7. Select a suitable name for the location. Scroll through the name options with [Start Stop] or [Light Lock]. Select a name with [Next].
8. Press [Start Stop] to save the POI.

1.



2.



3.



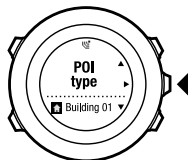
4.



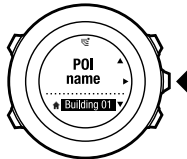
5.



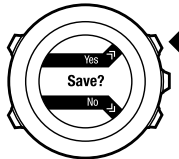
6.



7.



8.







**TIP:** You can create POIs in Movescount by selecting a location on a map or inserting the coordinates. POIs in your Suunto Ambit2 and in Movescount are always synchronized when you connect the device to Movescount.

### 8.3.2 Adding point of interest (POI) coordinates manually

You can save a location other than your current location as a POI by entering the coordinates manually.

To manually add the coordinates of a location:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **NAVIGATION** using [Start Stop] and select with [Next].
3. Scroll to **POIs (Points of interest)** using [Light Lock] and select with [Next]. The device shows the number of POIs currently stored in the device and the amount of space available for new POIs.
4. Scroll to **Define location** using [Light Lock] and select with [Next]. The device shows the coordinates of the location where the last GPS fix was taken.
5. Edit the latitude values with [Start Stop] and [Light Lock]. Accept the values with [Next].
6. Edit the longitude values with [Start Stop] and [Light Lock]. Accept the values with [Next].
7. Select a suitable POI type for the location. Scroll through the POI types with [Start Stop] or [Light Lock]. Select a POI type with [Next].
8. Select a suitable name for the location. Scroll through the name options with [Start Stop] or [Light Lock]. Select a name with [Next].
9. Press [Start Stop] to save the POI.



**TIP:** When scrolling the menu options, you can increase the speed by keeping [Start Stop] or [Light Lock] pressed until the options start to scroll faster.

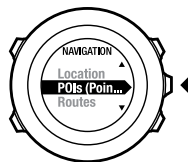
1.



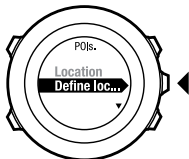
2.



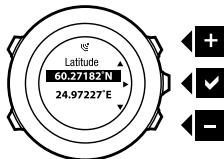
3.



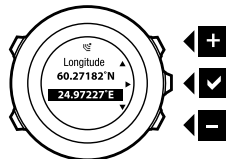
4.



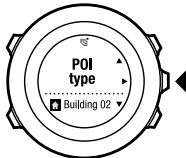
5.



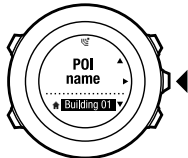
6.



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### 8.3.3 Navigating to a point of interest (POI)

Suunto Ambit2 includes GPS navigation which allows you to navigate to a pre-defined destination stored as a POI.

 **NOTE:** *You can also navigate when you are recording an exercise, see Section 12.6.7 Navigating during exercise on page 83.*

To navigate to a POI:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **NAVIGATION** using [Start Stop] and enter with [Next].
3. Scroll to **POIs (Points of interest)** using [Light Lock] and select with [Next].  
The device displays the number of saved POIs and free space available for new POIs.
4. The POIs are grouped by type. Scroll to the desired POI type with [Start Stop] or [Light Lock]. Select with [Next].
5. The device displays all the POIs saved under the selected POI type. Scroll to the POI you wish to navigate to with [Start Stop] or [Light Lock] and select with [Next].
6. Press [Next] to select **Navigate**.

If you are using the compass for the first time, you need to calibrate it. For more information, see *Section 10.1 Calibrating compass on page 61*. After activating the compass, the device starts searching for a GPS signal and displays **GPS found** after acquiring the signal.

7. Start navigating to the POI. The device displays the following information:
  - arrow pointing to the direction of your destination (turn left/right indicator)

- your distance from the destination
- the name of the POI you are headed towards, your deviation from the heading in degrees ( $0^\circ$  is the correct heading), or alternatively your current heading in cardinal (**N, S, W, E**) and half-cardinal (**NE, NW, SE, SW**) points.

8. The device informs you that you have arrived at your destination.

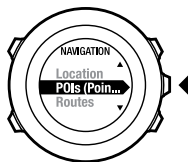
1.



2.



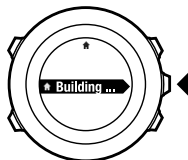
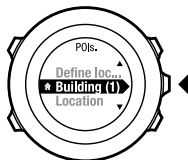
3.



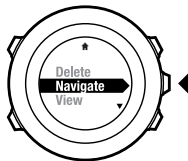
4.



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 **NOTE:** Navigation shows the deviation from the north arrow of the watch bezel in low speeds (<4 km/h) and the deviation from course direction in high speeds (>4 km/h). When standing still, you can rotate the device until you see 0 indicating the correct direction. When riding a bike, Suunto Ambit2 detects your direction even when the device is tilted.

### 8.3.4 Deleting a point of interest (POI)

To delete a POI:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **NAVIGATION** using [Start Stop] and enter with [Next].
3. Scroll to **POIs (Points of interest)** using [Light Lock] and select with [Next].  
The device displays the number of saved POIs and free space available for new POIs.
4. The POIs are grouped by type. Scroll to the desired POI type with [Start Stop] or [Light Lock]. Select with [Next].
5. The device displays all the POIs saved under the selected POI type. Scroll to the POI you wish to delete with [Start Stop] or [Light Lock] and select with [Next].
6. Scroll to **Delete** with [Start Stop]. Select with [Next].
7. Press [Start Stop] to confirm.

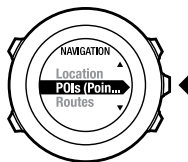
1.



2.



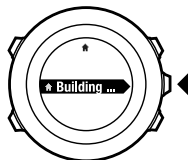
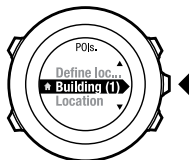
3.



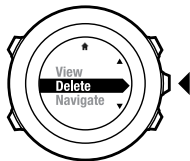
4.



5.




6.



7.





 **NOTE:** When you delete a POI in Movescount and synchronize your Suunto Ambit2, the POI is deleted from the device but only disabled in Movescount.


## 8.4 Route navigation

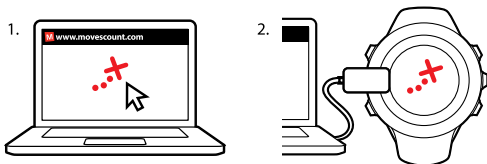
### 8.4.1 Adding a route

You can create a route in Movescount, or import a route created with another device from your computer to Movescount. You can also record a route with your Suunto Ambit2 and upload it to Movescount, see *Section 12.6.1 Recording tracks on page 76*.

To add a route:


1. Go to [www.movescount.com](http://www.movescount.com). Follow the instructions on how to import or create a route.
2. Activate Moveslink and connect your Suunto Ambit2 to your computer with the Suunto USB cable. The route is transferred automatically to the device.

 **NOTE:** Make sure that the route you want to transfer to your Suunto Ambit2 has been selected in Movescount.



### 8.4.2 Navigating a route

You can navigate a route you have downloaded to your Suunto Ambit2 from Movescount, see [Section 8.4.1 Adding a route on page 41](#).

 **NOTE:** You can also navigate when you are recording an exercise, see [Section 12.6.7 Navigating during exercise on page 83](#).

To navigate a route:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **NAVIGATION** with [Start Stop] and enter with [Next].
3. Scroll to **Routes** with [Start Stop] and enter with [Next].  
The device displays the number of saved routes and after that a list of all your routes.
4. Scroll to the route you want to navigate with [Start Stop] or [Light Lock]. Select with [Next].
5. The device displays all the waypoints on the selected route. Scroll to the waypoint you want to use as the starting point with [Start Stop] or [Light Lock]. Accept with [Next].

6. Press [Next] to select **Navigate**.
7. If you selected a waypoint in the middle of the route, Suunto Ambit2 prompts you to select the direction of the navigation. Press [Start Stop] to select **Forwards** or [Light Lock] to select **Backwards**.  
If you selected the first waypoint as the starting point, Suunto Ambit2 navigates the route forward (from the first to the last waypoint). If you selected the last waypoint as the starting point, Suunto Ambit2 navigates the route backwards (from the last to the first waypoint).
8. If you are using the compass for the first time, you need to calibrate it. For more information, see *Section 10.1 Calibrating compass on page 61*. After activating the compass, the device starts searching for a GPS signal and displays **GPS found** after acquiring the signal.
9. Start navigating to the first waypoint on the route. The device informs you when you are approaching the waypoint and automatically starts navigating to the next waypoint on the route.
10. Before the last waypoint on the route the device informs you that you have arrived at your destination.

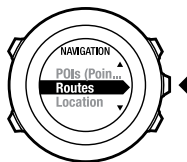
1.



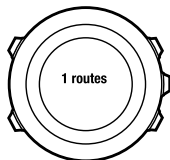
2.



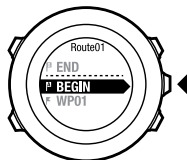
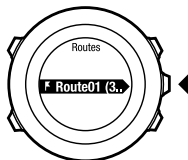
3.



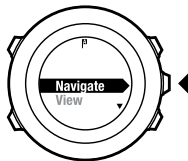
4.



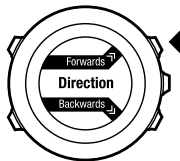
5.



6.



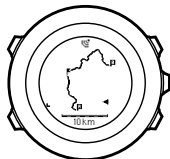
7.



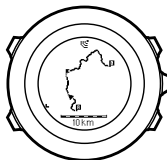
8.



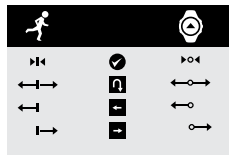
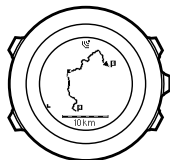
9.



10.



...



To skip a waypoint on a route:

1. While you are navigating a route, keep [Next] pressed to access the options menu.
2. Press [Next] to select **NAVIGATION**.
3. Scroll to **Skip waypoint** with [Start Stop] and select with [Next]. The device skips the waypoint and starts navigating directly to the next waypoint on the route.

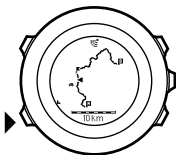


### 8.4.3 During navigation

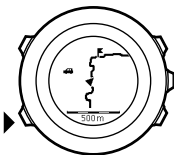
During navigation, press [View] to scroll the following views:

1. the full track view showing the whole route
2. zoomed-in view of the route. By default, the zoomed-in view is scaled to a 500 m/0.25 mi scale, or larger if you are far away from the route. You can change the map orientation in the settings, see *Chapter 14 Adjusting settings on page 102*.
3. waypoint navigation view

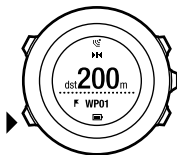
1.



2.



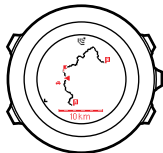
3.




## Full track view

The full track view shows you the following information:

- (1) arrow indicating your location and pointing to the direction of your heading.
- (2) the next waypoint on the route
- (3) the first and last waypoint on the route
- (4) POIs that are located close to the route. The closest POI is shown as an icon.
- (5) scale on which the full track view is shown



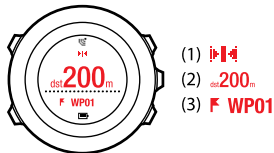
- (1)
- (2)
- (3)
- (4)
- (5)

 **NOTE:** In the full track view the north is always upwards.

## Waypoint navigation view

The waypoint navigation view shows you the following information:

- (1) arrow pointing to the direction of the next waypoint (turn left/right indicator)
- (2) your distance to the next waypoint
- (3) the next waypoint you are headed towards



### 8.4.4 Deleting a route

You can delete and disable routes in Movescount.

To delete a route:

1. Go to [www.movescount.com](http://www.movescount.com) and follow the instructions on how to delete or disable a route.
2. Activate Moveslink and connect your Suunto Ambit2 to your computer with the Suunto USB cable. While the settings are synchronized, the route is removed automatically from the device.




## 9 USING ALTI & BARO MODE

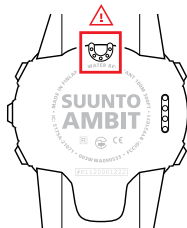
In **ALTI & BARO** mode you can view the current altitude or barometric pressure. It offers three profiles: **Automatic**, **Barometer** and **Altimeter**. For information on setting profiles, see *Section 9.2.1 Setting profiles on page 52*.

You can access different views depending on which profile is activated when you are in **ALTI & BARO** mode.

### 9.1 How Alti & Baro works

To get correct readings with **ALTI & BARO** mode, it is important to understand how Suunto Ambit2 calculates altitude and sea level air pressure. Suunto Ambit2 constantly measures absolute air pressure. Based on this measurement and reference values, it calculates altitude or sea level air pressure.

 **CAUTION:** *Keep the area around the sensor free of dirt and sand. Never insert any objects into the sensor openings.*



## 9.1.1 Getting correct readings

If you are engaged in an outdoor activity that requires accurate sea level air pressure or altitude, you will first need to calibrate your Suunto Ambit2 by entering either your current altitude or the current sea level air pressure. The altitude of your location can be found from most topographic maps or Google Earth. A sea level air pressure reference for your location can be found using the websites of national weather services. If FusedAlti™ is activated, the altitude reading will be corrected automatically using FusedAlti together with altitude and sea level pressure calibration. For more information, see *Section 9.6 FusedAlti™* on page 58.

### **Absolute air pressure is measured constantly**

*Absolute air pressure and known altitude reference = Sea level air pressure*

*Absolute air pressure and known sea level air pressure = Altitude*

Changes in local weather conditions will affect altitude readings. If local weather changes often, it is advisable to reset the current altitude reference value frequently, preferably before starting your journey when the reference values are available. As long as the local weather stays stable, you do not need to set reference values.

## 9.1.2 Getting incorrect readings

### **ALTIMETER profile + standing still + weather change**

If your **Altimeter** profile is on for an extended period of time with the device in a fixed location while the local weather changes, the device will give incorrect altitude readings.

### **ALTIMETER profile + altitude moving + weather change**

If your **Altimeter** profile is on and the weather changes frequently while you climb in altitude or go down in altitude, the device will give you incorrect readings.

### **BAROMETER profile + altitude moving**

If the **Barometer** profile is on for an extended period of time as you climb in altitude or go down in altitude, the device assumes that you are standing still and interprets your changes in altitude as changes in sea level air pressure. It will therefore give you incorrect sea level air pressure readings.

### **Use example: Setting the altitude reference value**


You're on the second day of your two-day hike. You realize that you forgot to switch from the **Barometer** profile to the **Altimeter** profile when you started moving in the morning. You know that the current altitude readings given by your Suunto Ambit2 are wrong. So, you hike to the nearest location shown on your topographic map for which an altitude reference value is provided. You correct your Suunto Ambit2 altitude reference value accordingly and switch from **Barometer** to **Altimeter** profile. Your altitude readings are correct again.

## **9.2 Matching profile to activity**

The **Altimeter** profile should be selected when your outdoor activity involves changes in altitude (e.g. hiking in hilly terrain).

The **Barometer** profile should be selected when your outdoor activity does not involve changes in altitude (e.g. soccer, sailing, canoeing).

To get correct readings, you need to match the profile to your activity. You can either let Suunto Ambit2 decide a suitable profile for the activity, or choose a profile yourself.

 **NOTE:** You can define the profile as part of the sport mode settings in Movescount, or in your Suunto Ambit2.

### 9.2.1 Setting profiles

To set the **ALTI & BARO** profile:

1. Keep [Next] pressed to enter the options menu.
2. Scroll to **ALTI-BARO** with [Light Lock] and enter with [Next].
3. Press [Next] to select **Profile**.
4. Scroll the profile options (**Automatic, Altimeter, Barometer**) with [Start Stop] or [Light Lock]. Select a profile with [Next].

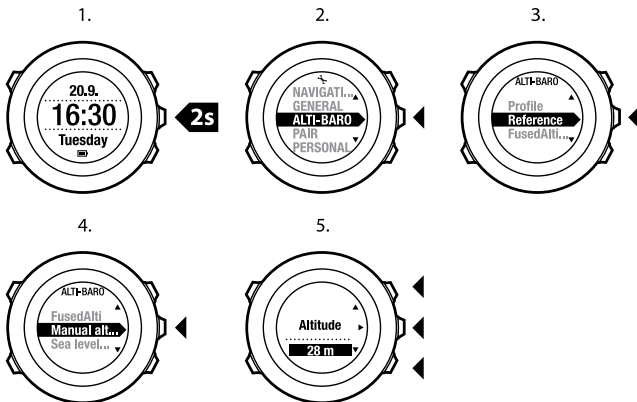


### 9.2.2 Setting reference values

To set the sea level pressure and altitude reference values:

1. Keep [Next] pressed to enter the options menu.
2. Scroll to **ALTI-BARO** with [Light Lock] and enter with [Next].

3. Scroll to **Reference** with [Light Lock] and enter with [Next].
4. The following setting options are available:
  - **FusedAlti**: GPS is switched on and the device starts calculating altitude based on FusedAlti. For more information, see *Section 9.6 FusedAlti™ on page 58*.
  - **Manual altitude**: Set your altitude manually.
  - **Sea level pressure**: Set the sea level pressure reference value manually.
5. Set the reference value using [Start Stop] and [Light Lock]. Accept the setting with [Next].



 **TIP:** You can access the **Reference** setting by keeping [View] pressed in **TIME** mode.

You can also set your altitude during your exercise, see *Section 12.6.4 Setting altitude during exercise on page 80*.


## 9.3 Using Altimeter profile

The **Altimeter** profile calculates altitude based on reference values. The reference value can either be sea level air pressure value or altitude reference value. When the **Altimeter** profile is activated, the altimeter icon is shown on the display. For information on setting the profile, see *Section 9.2.1 Setting profiles on page 52*.

When the **Altimeter** profile is activated, you can access the following views:

- top row: your current altitude
- middle row: altitude information on a 12-hour timeline in graph form
- bottom row: toggle between time and temperature with [View]



 **NOTE:** If you are wearing your Suunto Ambit2 on your wrist, you will need to take it off in order to get an accurate temperature reading because your body temperature will affect the initial reading.

## 9.4 Using Barometer profile

The **Barometer** profile shows the current sea level air pressure. This is based on the reference values added in the settings and the constantly measured absolute air pressure. For information on setting the reference values, see *Section 9.2.2 Setting reference values on page 52*.

Changes in the sea level air pressure are presented graphically in the middle row of the display. The display shows the recording of the last 27 hours with a recording interval of 1 hour.

When the **Barometer** profile is activated, the barometer icon is shown on the display. For information on setting the **ALTI & BARO** profile, see *Section 9.2.1 Setting profiles on page 52*.


When the **Barometer** profile is activated, Suunto Ambit2 shows you the following barometric information:

- top row: the current sea level air pressure
- middle row: a graph displaying sea level pressure data from the past 27 hours (1h recording interval)
- bottom row: toggle between temperature, time and altitude reference value with [View]



Altitude reference is the latest altitude used in **ALTI & BARO** mode. It can be:

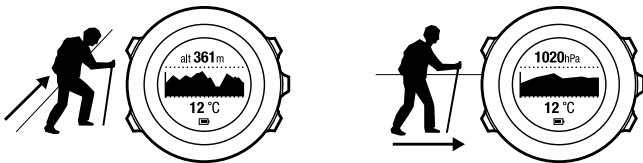
- the altitude you have set as altitude reference in the **Barometer** profile, or
- the latest altitude logged in the **Automatic** profile before changing to the **Barometer** profile.

 **NOTE:** *If you are wearing your Suunto Ambit2 on your wrist, you will need to take it off in order to get an accurate temperature reading because your body temperature will affect the initial reading.*

## 9.5 Using Automatic profile

The **Automatic** profile switches between the **Altimeter** and **Barometer** profiles according to your movements. When the **Automatic** profile is active, the device will automatically switch between interpreting changes in air pressure as changes in altitude or changes in weather.





It is not possible to measure weather and altitude changes at the same time, as both cause a change in the surrounding air pressure. Suunto Ambit2 senses vertical movement and switches to measuring altitude, when needed. When altitude is shown, it is updated with a maximum delay of 10 seconds.

If you are at a constant altitude (less than 5 meters of vertical movement within 12 minutes), Suunto Ambit2 interprets all pressure changes as weather changes. The measurement interval is 10 seconds. The altitude reading remains steady and if the weather changes, you will see changes in the sea level air pressure reading.


If you are moving in altitude (more than 5 meters of vertical movement within 3 minutes), Suunto Ambit2 interprets all pressure changes as movements in altitude.

Depending on which profile is active, you can access the **Altimeter** or **Barometer** profile views with [View].

 **NOTE:** When you are using the **Automatic** profile, barometer or altimeter icons are not shown on the display.

## 9.6 FusedAlti™

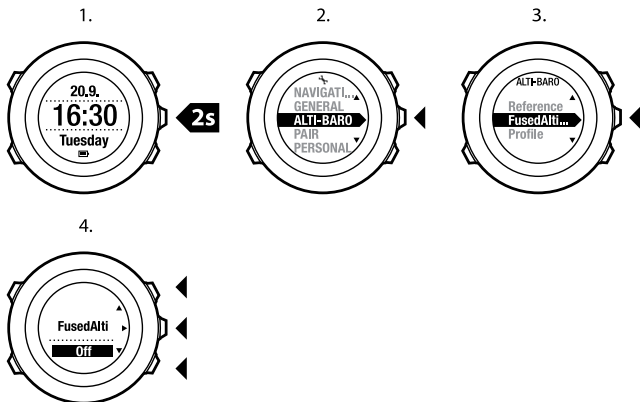
FusedAlti™ provides an altitude reading that is a combination of GPS and barometric altitude. It minimizes the effect of temporary and offset errors in the final altitude reading.

 **NOTE:** *By default, altitude is measured with FusedAlti during exercises that use GPS and during navigation. When GPS is switched off, altitude is measured with the barometric sensor.*

If you do not want to use FusedAlti in altitude measurement, you can disable it in the options menu.

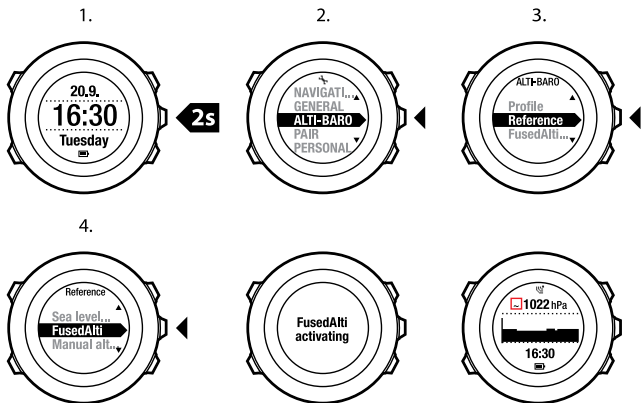
To disable FusedAlti:


1. Keep [Next] pressed to access the options menu.
2. Scroll to **ALTI-BARO** with [Light Lock] and enter with [Next].
3. Scroll to **FusedAlti** with [Start Stop] and select with [Next].
4. Set FusedAlti **Off** with [Start Stop] or [Light Lock] and accept with [Next].



When the device is in **TIME** mode, you can search a new reference for barometric altitude with FusedAlti. This activates the GPS for a maximum of 15 minutes. To search a new reference for barometric altitude with FusedAlti:

1. Keep [Next] pressed to enter the options menu.
2. Scroll to **ALTI-BARO** with [Light Lock] and enter with [Next].
3. Scroll to **Reference** with [Light Lock] and enter with [Next].
4. Scroll to **FusedAlti** with [Start Stop] and select with [Next].  
GPS is switched on and the device starts calculating altitude based on FusedAlti.



 **NOTE:** In good conditions it takes 4 – 12 minutes for the FusedAlti to activate. During that time, Suunto Ambit2 shows barometric altitude and ~ is shown with the altitude reading to indicate that the altitude may not be correct.

 **TIP:** You can access the **Reference** setting by keeping [View] pressed in **TIME** mode.

## 10 USING 3D COMPASS

Suunto Ambit2 has a 3D compass that allows you to orient yourself in relation to magnetic north. The tilt-compensated compass gives you accurate readings even if the compass is not horizontally level.

**COMPASS** mode includes the following information:

- middle row: compass heading in degrees
- bottom row: toggle between the current heading in cardinal (**N, S, W, E**) and half-cardinal (**NE, NW, SE, SW**) points, time and empty view with [View]




The compass will switch itself to power saving mode after one minute. Reactivate it with [Start Stop].

For information on using compass during exercise, see *Section 12.6.5 Using compass during exercise on page 80*.

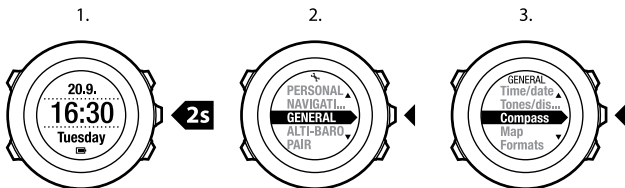
### 10.1 Calibrating compass

**COMPASS** mode asks you to calibrate the compass before you start using it. If you have already calibrated the compass and want to re-calibrate it, you can access the calibration option in the options menu.

 **NOTE:** Calibrating the 3D compass requires two actions, horizontal rotation and vertical tilt. Be sure to read all the instructions before starting the calibration.

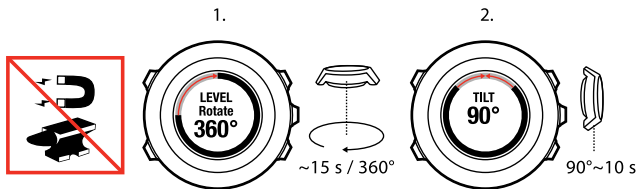
To access the compass calibration:

1. Keep [Next] pressed to enter the options menu.
2. Scroll to **GENERAL** using [Light Lock] and enter with [Next].
3. Scroll to **Compass** using [Start Stop] or [Light Lock] and enter with [Next].
4. Press [Next] to select **Calibration**.



To calibrate the compass:

1. Keep the device as level as possible and rotate it until the outer rim segments of the display are filled and you hear a sound confirming the calibration was successful. The text **Level** is blinking on the display when the device is not leveled.
2. The tilt calibration starts automatically after a successful level calibration. Keep the device tilted at 90° until you hear the confirmation sound and the text **Calibration successful** is displayed.  
If the calibration does not succeed, the text **Calibration failed** is displayed. To retry the calibration, press [Start Stop].



## 10.2 Setting declination value

To ensure correct compass readings, set an accurate declination value.

Paper maps point to true north. Compasses, however, point to magnetic north – a region above the Earth where the Earth's magnetic fields pull. Because magnetic North and true North are not at the same location, you must set the declination on your compass. The angle in between magnetic and true north is your declination.

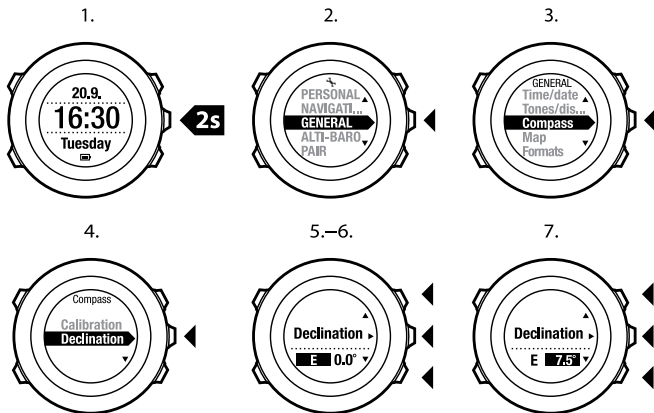
The declination value appears on most maps. The location of magnetic north changes yearly, so the most accurate and up-to-date declination value can be obtained from the internet (for example [www.magnetic-declination.com](http://www.magnetic-declination.com)).

Orienteering maps, however, are drawn in relation to magnetic north. This means that when you are using orienteering maps you need to turn the declination correction off by setting the declination value to 0 degrees.

To set the declination value:

1. Keep [Next] pressed to enter the options menu.
2. Press [Next] to enter **GENERAL**.
3. Scroll to **Compass** using [Light Lock] and select with [Next].
4. Scroll to **Declination** with [Light Lock] and select with [Next].

5. Turn the declination off by selecting --, or select **W** (west) or **E** (east).
6. Set the declination value with [Start Stop] or [Light Lock].
7. Press [Next] to accept the setting.





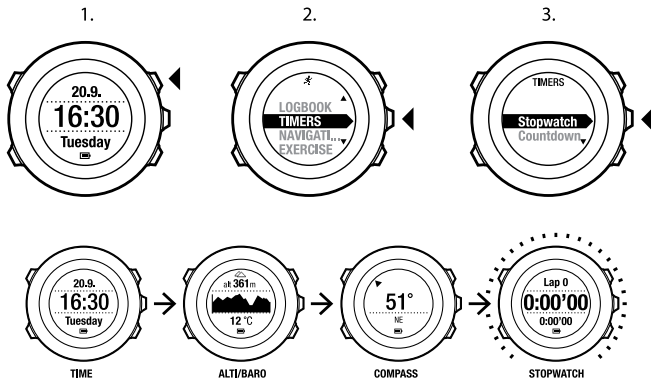
# 11 TIMERS

## 11.1 Activating and deactivating stopwatch

The stopwatch allows you to measure time without starting an exercise. After you have activated the stopwatch, it is shown as the last display after the **TIME**, **ALTI & BARO** and **COMPASS** modes.

To activate/deactivate the stopwatch:

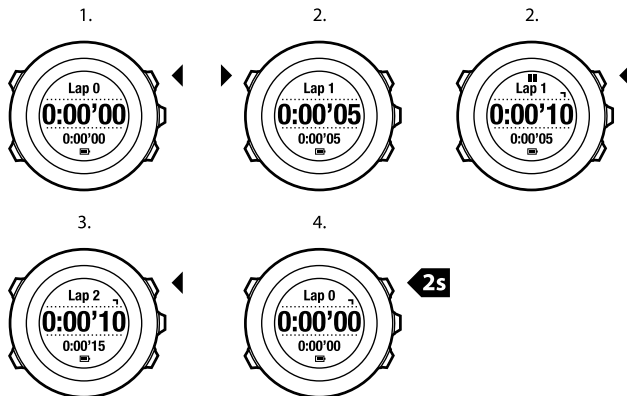
1. Press [Start Stop] to enter the start menu.
2. Scroll to **TIMERS** with [Light Lock] and enter with [Next].
3. Press [Next] to select **Stopwatch**.



## 11.2 Using stopwatch

To use the stopwatch:

1. In the activated stopwatch display, press [Start Stop] to start measuring time.
2. Press [Back Lap] to make a lap, or press [Start Stop] to pause the stopwatch. To view the lap times, press [Back Lap] when the stopwatch is paused.
3. Press [Start Stop] to continue.
4. To reset the time, keep [Start Stop] pressed when the stopwatch is paused.



While the stopwatch is running, you can:

- press [View] to switch between the time and lap time shown on the bottom row of the display.

- scroll the **TIME**, **ALTI & BARO** and **COMPASS** modes with [Next].
- enter the options menu by keeping [Next] pressed.

## 11.3 Countdown timer

You can set the countdown timer to count down from a preset time to zero. After you have activated the countdown timer, it is shown as the last display after **TIME**, **ALTI & BARO** and **COMPASS** modes.

The timer makes a short sound every second during the last 10 seconds and sounds an alarm when zero is reached.

To set the countdown time:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **TIMERS** with [Light Lock] and select with [Next].
3. Scroll to **Countdown** with [Light Lock] and select with [Next].
4. Press [View] to adjust the countdown time.
5. Set the hours and minutes with [Start Stop] and [Light Lock]. Accept with [Next].
6. Press [Start Stop] start the countdown.

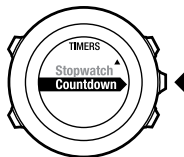
1.



2.



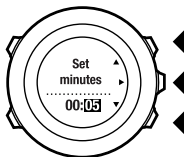
3.



4.



5.



6.



After the countdown has stopped, the countdown timer display disappears after a 2 minute timeout period.

To deactivate the timer, go to **TIMERS** in the start menu and select **END Timer**.



**TIP:** You can pause/continue the countdown by pressing [Start Stop].

## 12 USING SPORT MODES

Use the sport modes to record exercise logs and view various information during your exercise.

You can access the sport modes by pressing [Start Stop] in the **TIME** or **ALTI & BARO** mode, or in the **COMPASS** mode after the compass has been calibrated.



### 12.1 Sport modes

You can select a suitable sport mode from the predefined sport modes. Depending on the sport, different information is shown on the display during exercise. For example, the sport mode specifies whether FusedSpeed™ or plain GPS speed is used. (For more information, see *Chapter 13 FusedSpeed* on page 99.) The selected sport mode also affects exercise settings, such as HR limits, autolap distance, **ALTI & BARO** mode and recording rate. In Movescount you can create more custom sport modes, edit the predefined sport modes and download them to your device.

During exercise the predefined sport modes give you information that is useful for that particular sport:

- **Cycling:** speed, distance, cadence and heart rate related information

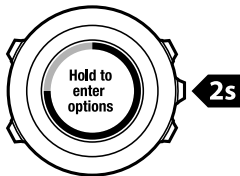
- **Mountaineering**: altitude, distance and speed related information (60 sec GPS fix)
- **Alpine skiing**: altitude, descent and time related information
- **Trekking**: distance, altitude, heart rate and chronograph related information (60 sec GPS fix)
- **Triathlon**: combination of outdoor swimming, cycling and running related information
- **Running**: pace, heart rate and chronograph related information
- **Indoor swimming**: average stroke rate, max. pace, average SWOLF
- **Outdoor swimming**: average stroke rate, max. pace, average SWOLF
- **Other sports**: speed, heart rate and altitude related information
- **Indoor training** : heart rate related information (without GPS)

## 12.2 Additional options in sport modes

When a sport mode is selected, keep [Next] pressed to access additional options to be used during your exercise.

- Select **ALTITUDE** to set the altitude.
- Select **NAVIGATION** to access the following options:
  - Select **Find back** to navigate back to the starting point of your exercise.
  - Select **Location** to check the coordinates of your current location, or save it as a POI.
  - Select **POIs (Points of interest)** to navigate to a POI.
  - Select **Routes** to navigate a route.
- Select **ACTIVATE** to set the following features on or off:
  - Select **Interval off/on** to activate/deactivate interval timer. The interval timer can be added to custom sport modes in Movescount. For more information, see *Section 12.6.6 Using interval timer on page 81*.

- Select **Autopause off/on** to activate/deactivate autopause.
- Select **HR limits off/on** to set the HR limits on or off. The heart rate limit values can be specified in Movescount.
- Select **Compass off/on** to activate/deactivate the compass. When the compass is activated during exercise, it is shown as an additional display after the sport mode.



## 12.3 Using heart rate belt

A heart rate belt can be used during exercise. When you use a heart rate belt, Suunto Ambit2 gives you more information about your activities.

Using a heart rate belt enables the following additional information during exercise:

- heart rate in real time
- average heart rate in real time
- heart rate in graph form
- calories burned during exercise
- guidance to exercise within defined heart rate limits
- Peak Training Effect

Using a heart rate belt enables the following additional information after exercise:

- calories burned during exercise
- average heart rate
- peak heart rate
- recovery time

### **Troubleshooting: No heart rate signal**

If you lose the heart rate signal, try the following:

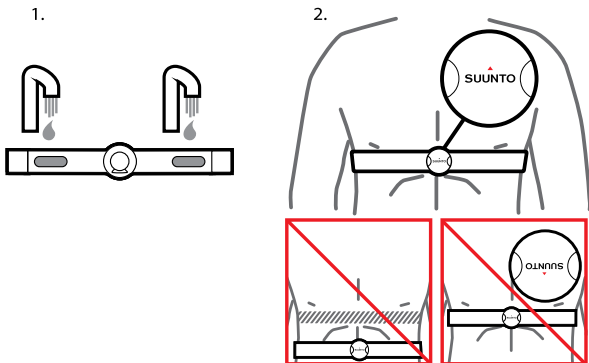
- Check that you are wearing the heart rate belt correctly (see *Section 12.4 Putting on heart rate belt on page 72*).
- Check that the electrode areas of the heart rate belt are moist.
- Replace the battery of the heart rate belt, if problems persist.
- Re-pair your heart rate belt with the device (see *Chapter 15 Pairing POD/heart rate belt on page 108*).
- Machine-wash the textile strap of the heart rate belt regularly.

## **12.4 Putting on heart rate belt**

 **NOTE:** *Suunto Ambit2 is compatible with Suunto ANT Comfort Belt.*

Adjust the strap length so that the heart rate belt is tight but still comfortable. Moisten the contact areas with water or gel and put on the heart rate belt. Ensure the heart rate belt is centered on your chest and the red arrow is pointing up.





**⚠ WARNING:** People who have a pacemaker, defibrillator, or other implanted electronic device use the heart rate belt at their own risk. Before starting the initial use of the heart rate belt, we recommend an exercise test under a doctor's supervision. This ensures the safety and reliability of the pacemaker and heart rate belt when being used simultaneously. Exercise may include some risk, especially for those who have been inactive. We strongly advise you to consult your doctor prior to beginning a regular exercise program.

**📄 NOTE:** Suunto Ambit2 cannot receive the heart rate belt signal under water.



**TIP:** Machine-wash the heart rate belt regularly after use to avoid unpleasant odor and to ensure good data quality and functionality. Only wash the textile strap.

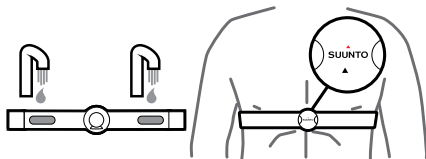
Suunto Ambit2 supports ANT+™ compatible heart rate straps and certain bike sensors with the software update 2.0 (available at <http://www.movescount.com/connect/Moveslink>). Visit [www.thisisant.com/directory](http://www.thisisant.com/directory) for a list of compatible ANT+ products.

## 12.5 Starting exercise

To start exercising:

1. Moisten the contact areas and put on the heart rate belt (optional).
2. Press [Start Stop] to enter the start menu.
3. Press [Next] to enter **EXERCISE**.
4. Scroll the sport mode options with [Start Stop] or [Light Lock] and select a suitable mode with [Next]. (For more information about the sport mode options, see *Section 12.1 Sport modes on page 69*.)
5. The device automatically starts searching for a heart rate belt signal, if the selected sport mode uses a heart rate belt. Wait for the device to notify that the heart rate and/or GPS signal have been found, or press [Start Stop] to select **Later**. The device continues to search the heart rate/GPS signal. Once the heart rate/GPS signal has been found, the device starts showing and recording heart rate/GPS data.
6. Press [Start Stop] to start recording your exercise. To access the options menu, keep [Next] pressed (see *Section 12.2 Additional options in sport modes on page 70*).

(1.)



2.



3.



4.



5.



6.



## 12.6 During exercise

Suunto Ambit2 gives you additional information during your exercise. The additional information varies depending on the sport mode you have selected, see *Section 12.1 Sport modes on page 69*. You will also get more information, if you use a heart rate belt and GPS during exercise.

Suunto Ambit2 allows you to define what information you want to see on the display. For information on customizing the displays, see *Chapter 6 Customizing your Suunto Ambit2 on page 15*.

Here are some ideas on how to use the device during exercise:

- Press [Next] to see additional displays.
- Press [View] to see additional views.
- To avoid accidentally stopping your log recording or making unwanted laps, lock the buttons by keeping [Light Lock] pressed.
- Press [Start Stop] to pause recording. The pause will be shown in your log as a lap mark. To resume recording, press [Start Stop] again.

### 12.6.1 Recording tracks

Depending on the sport mode you have selected, your Suunto Ambit2 allows you to record various information during exercise.

If you are using GPS while recording a log, Suunto Ambit2 will also record your track and you can view it in Movescount. When you are recording your track, the recording icon and the GPS icon are shown on the upper part of the display.

### 12.6.2 Making laps

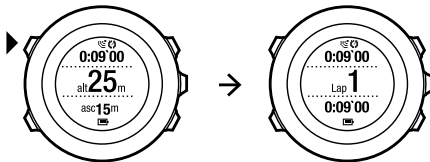
During your exercise, you can make laps either manually or automatically by setting the autolap interval in Movescount. When you are making laps

automatically, Suunto Ambit2 records the laps based on the distance you have specified in Movescount.

To make laps manually, press [Back Lap] during the exercise.

Suunto Ambit2 shows you the following information:


- top row: split time (duration from the start of the log)
- middle row: lap number
- bottom row: lap time



**NOTE:** The exercise summary always shows at least one lap, your exercise from start to finish. The laps you have made during the exercise are shown as additional laps.

### 12.6.3 Recording altitude

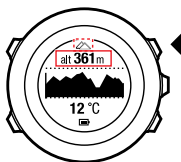
Your Suunto Ambit2 stores all your movements in altitude between the start and stop time of the log. If you are engaged in an activity in which your altitude changes, you can record the altitude changes and view the stored information later.

 **NOTE:** By default, altitude measurement is based on FusedAlti. For more information, see Section 9.6 FusedAlti™ on page 58.

To record altitude:

1. Make sure that the **Altimeter** profile is activated.
2. Press [Start Stop] to enter the start menu.
3. Press [Next] to select **EXERCISE**.
4. Scroll the sport modes with [Start Stop] or [Light Lock] and select a suitable mode with [Next].
5. Wait for the device to notify that the heart rate and/or GPS signal have been found, or press [Start Stop] to select **Later**. The device continues to search the heart rate/GPS signal. Press [Start Stop] to start recording the log.

1.– 2.



3.



4.



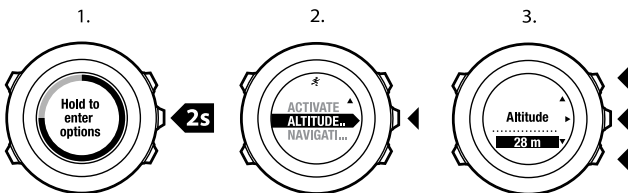
5.



## 12.6.4 Setting altitude during exercise

Most of the sport modes allow you to set your altitude manually during exercise. To set your altitude during exercise:

1. While you are in a sport mode, keep [Next] pressed to access the options menu.
2. Scroll to **ALTITUDE** with [Start Stop] and select with [Next].
3. Set your altitude using [Start Stop] and [Light Lock].
4. Accept with [Next].



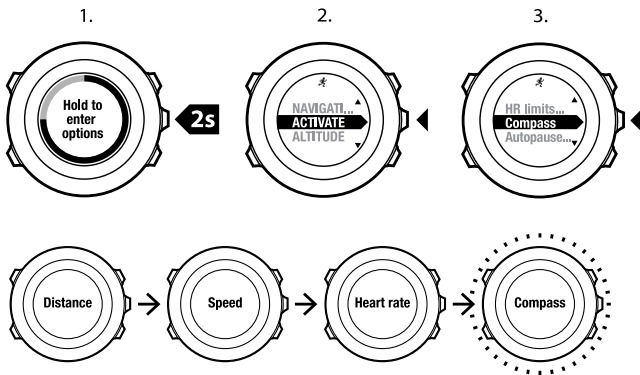
## 12.6.5 Using compass during exercise

You can activate the compass and add it to a custom sport mode during your exercise.

To use the compass during exercise:

1. While you are in a sport mode, keep [Next] pressed to access the options menu.
2. Scroll to **ACTIVATE** with [Light Lock] and select with [Next].
3. Scroll to **Compass** with [Light Lock] and select with [Next].
4. The compass is shown as the last display on the custom sport mode.





To deactivate the compass, go back to **ACTIVATE** in the options menu and select **End compass**.

### 12.6.6 Using interval timer

You can add an interval timer to each custom sport mode in Movescount. To add the interval timer to a sport mode, select the sport mode and go to **Advanced settings**. The next time you connect your Suunto Ambit2 to your Movescount account, the interval timer will be synchronized to the device.

You can specify the following information in the interval timer:

- interval types (**HIGH** and **LOW** interval)

- the duration or distance for both interval types
- the number of times the intervals are repeated

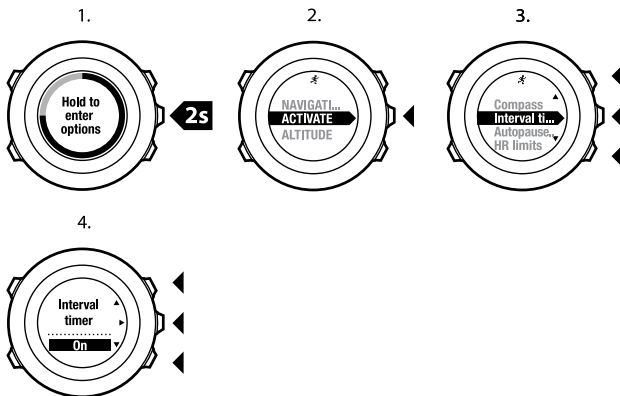


**NOTE:** *If you do not set the number of repetitions for the intervals in Movescount, the interval timer will continue until it has been repeated 99 times.*

To activate/deactivate the interval timer:

1. While you are in a sport mode, keep [Next] pressed to access the options menu.
2. Scroll to **ACTIVATE** with [Light Lock] and select with [Next].
3. Scroll to **Interval** with [Start Stop] and select with [Next].
4. Press [Start Stop] or [Light Lock] to set the interval timer **On/Off** and accept with [Next].

When the interval timer is active, the interval icon is shown on the top of the display.



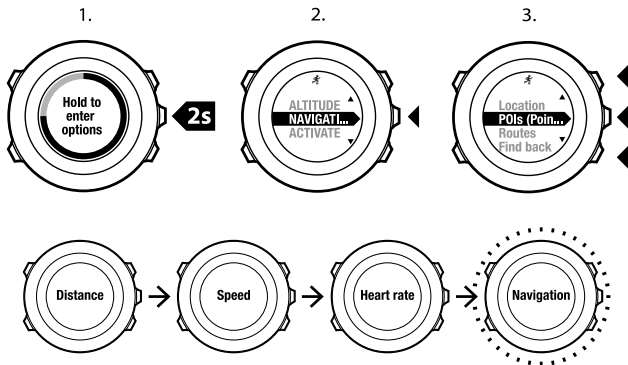
## 12.6.7 Navigating during exercise

You can navigate a route or navigate to a point of interest (POI) during your exercise.

To navigate during exercise:

1. While you are in a sport mode, keep [Next] pressed to access the options menu.
2. Press [Next] to select **NAVIGATION**.
3. Scroll to **POIs (Points of interest)** or **Routes** with [Light Lock] and select with [Next].

The navigation guidance is shown as the last display on the selected sport mode.



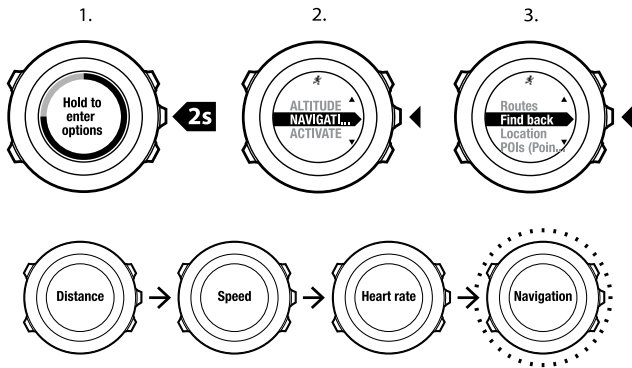
To deactivate navigation, go back to **NAVIGATION** in the options menu and select **End navigation**.

### 12.6.8 Finding back during exercise

Suunto Ambit2 automatically saves the starting point of your exercise, if you are using GPS. During exercise, Suunto Ambit2 guides you back to the starting point (or to the location where the GPS fix was established) with the **Find back** functionality.

To find back to the starting point during exercise:

1. While you are in a sport mode, keep [Next] pressed to access the options menu.
2. Press [Next] to select **NAVIGATION**.
3. Scroll to **Find back** with [Start Stop] and select with [Next].  
The navigation guidance is shown as the last display on the selected sport mode.



### 12.6.9 Autopause

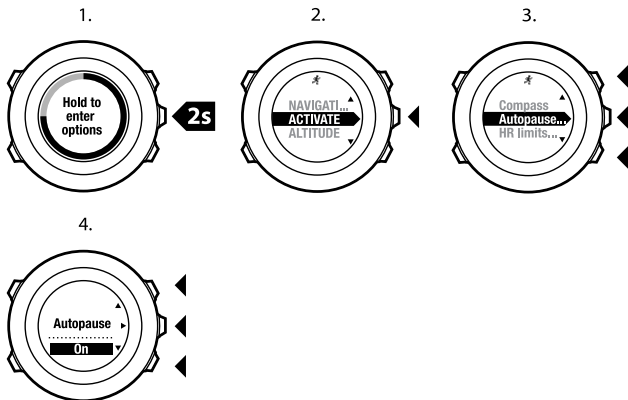
Autopause pauses the recording of your exercise when your speed is less than 2 km/h. When your speed increases to more than 2km/h, the recording continues automatically.

You can set autopause to on/off for each sport mode in Movescount. Alternatively, you can activate autopause during exercise.

 **NOTE:** Autopause is not available in the **Indoor swimming** mode.

To set autopause on/off during exercise:

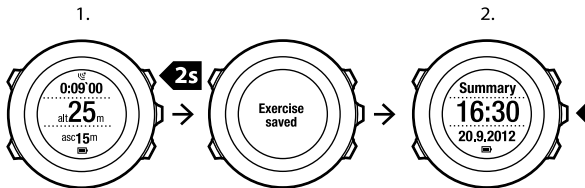
1. While you are in a sport mode, keep [Next] pressed to access the options menu.
2. Scroll to **ACTIVATE** with [Light Lock] and select with [Next].
3. Scroll to **Autopause** with [Start Stop] and select with [Next].
4. Press [Start Stop] or [Light Lock] to set autopause **On/Off** and accept with [Next].



## 12.7 Viewing logbook after exercise

You can view the summary of your exercise after you have stopped recording. To stop recording and view the summary information:

1. Keep [Start Stop] pressed to stop and save the exercise.  
Alternatively, you can press [Start Stop] to pause the recording. After pausing the log, confirm stopping by pressing [Back Lap], or continue recording by pressing [Light Lock]. After stopping the exercise, save the log by pressing [Start Stop]. If you do not want to save the log, press [Light Lock].
2. Press [Next] to view the exercise summary.

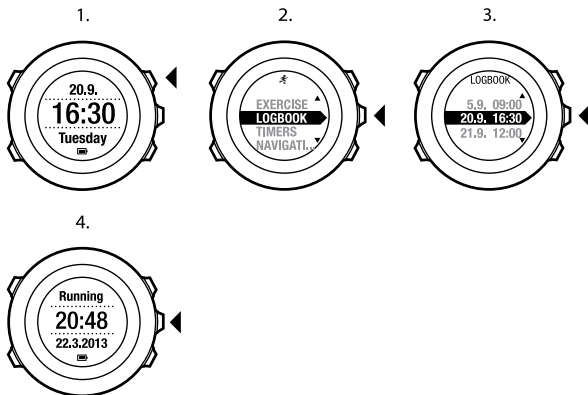


You can also view the summaries of all your saved exercises in the logbook. In the logbook the exercises are listed according to time and the latest exercise is shown first. The logbook can store approximately 15 hours of exercises with 1 second's GPS fix and data collection interval.

To view the summary of your exercise in the logbook:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **LOGBOOK** with [Light Lock] and enter with [Next]. Your current recovery time is shown.

3. Scroll the exercise logs with [Start Stop] or [Light Lock] and select a log with [Next].
4. Browse the summary views of the log with [Next].



### 12.7.1 Dynamic exercise summary

The dynamic exercise summary shows the active fields from your exercise as a summary. You can browse the summary views with [Next].

The information shown on the summary depends on the sport mode you used, and whether you used a heart rate belt or GPS.

By default, all the sport modes include the following information:

- sport mode name



- time
- date
- duration
- laps

A multisport summary includes the total/average data from all the sports included in the multisport exercise. You can view a detailed summary of your multisport exercise in Movescount.



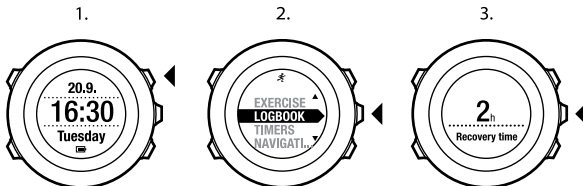
**TIP:** You can access more detailed data in Movescount.

## 12.7.2 Recovery time

Suunto Ambit2 always shows your current cumulative recovery time from all your saved exercises. The recovery time indicates how long it takes for you to fully recover and be ready to exercise with full intensity. As your recovery time decreases or increases, the device updates it in real time.

To view your current recovery time:

1. Press [Start Stop] to enter the start menu.
2. Scroll to **LOGBOOK** with [Light Lock] and select with [Next].
3. The recovery time is shown on the display.



 **NOTE:** *The recovery time is shown only if it is longer than 30 minutes.*

## 12.8 Multisport training

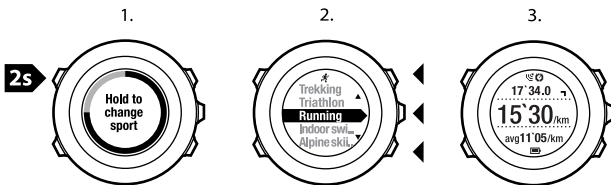
Suunto Ambit2 offers multisport support; you can easily switch between different sports and constantly see relevant data during your exercise. You can change the sport manually during the exercise, or create a multisport mode in advance in Movescount and download it to your Suunto Ambit2. You can set an interval timer in Movescount for each sport mode included in the multisport mode. The interval timer restarts when the sport changes.


### 12.8.1 Switching sport modes manually during exercise


Suunto Ambit2 allows you to switch to another sport mode during exercise without having to stop recording. All the sport modes you have used during the exercise are included in the log.

To switch the sport mode manually during exercise:

1. While you are recording your exercise, keep [Back Lap] pressed to access the sport modes.
2. Scroll the list of sport mode options with [Start Stop] or [Light Lock].
3. Select a suitable sport mode with [Next]. Suunto Ambit2 continues recording the log and the data for the selected sport mode.



 **NOTE:** Suunto Ambit2 makes a lap each time you switch to another sport mode.

 **NOTE:** The log recording is not paused when you switch to another sport mode. You can pause the recording manually by pressing [Start Stop].

## 12.8.2 Using preconfigured multisport mode

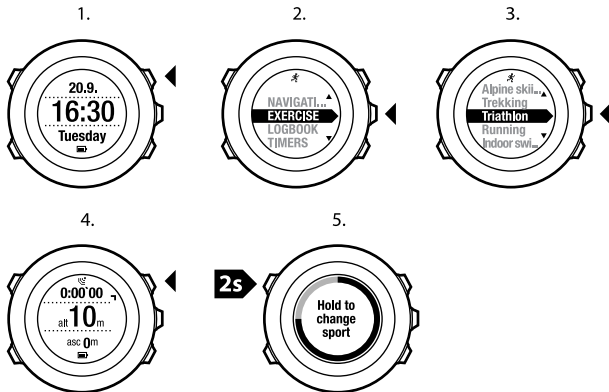
You can create your own multisport mode in Movescount and download it to your Suunto Ambit2. The multisport mode can comprise a number of different sport modes in a specific order. Each sport included in the multisport mode has its own interval timer. You can select **Multisport**, **Adventure racing** or **Triathlon** as the multisport mode.

To use a preconfigured multisport mode:

1. Press [Start Stop] to enter the start menu.
2. Press [Next] to enter **EXERCISE**.
3. Scroll to the preconfigured multisport mode and select with [Next].

Wait for the device to notify that the heart rate and/or GPS signal have been found, or press [Start Stop] to select **Later**. The device continues to search the heart rate/GPS signal.

4. Press [Start Stop] to start recording the log.
5. Keep [Back Lap] pressed to change to the next sport in your multisport mode.



## 12.9 Swimming mode

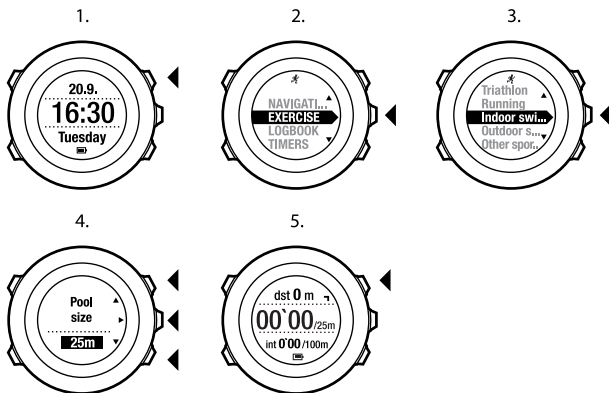
You can use your Suunto Ambit2 to record various data while swimming. The device also recognises your swimming style. You can log your exercise in a swimming pool or outdoors and analyze the data afterwards in Movescount.

### 12.9.1 Indoor swimming

When using the pool swimming sport mode, Suunto Ambit2 measures your swimming speed based on the pool length. Each pool length creates a lap that is shown in Movescount as part of the log.

To record a swimming log in a pool:

1. Press [Start Stop] to enter the start menu.
2. Press [Next] to enter **EXERCISE**.
3. Scroll to **Indoor swimming** using [Light Lock] and select with [Next].
4. Select the pool size. You can select the pool length from the predefined values, or select the **custom** option to specify the pool length. Scroll the options with [Start Stop] and [Light Lock] and accept the value with [Next].
5. Press [Start Stop] to start recording your swimming log.



## 12.9.2 Outdoor swimming

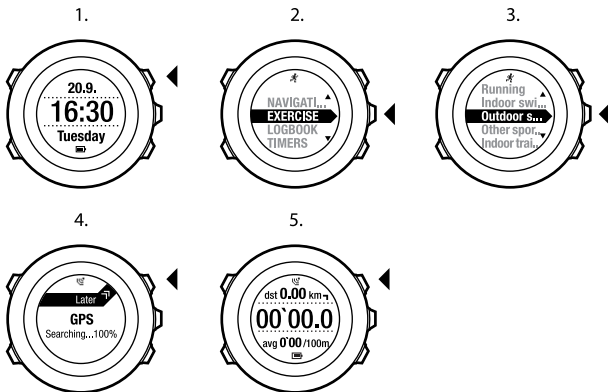
When using the outdoor swimming mode, Suunto Ambit2 measures your swimming speed using GPS and shows you real-time data during the swim.


To record an outdoor swimming log:

1. Press [Start Stop] to enter the start menu.
2. Press [Next] to enter **EXERCISE**.
3. Scroll to **Outdoor swimming** with [Light Lock] and select with [Next].
4. The device automatically starts searching for GPS signal. Wait for the device to notify that GPS signal has been found, or press [Start Stop] to select

**Later.** The device continues to search for a GPS signal and once it has been found, the device starts showing and recording GPS data.

5. Press [Start Stop] to start recording your swimming log.



 **TIP:** Press [Back Lap] to add laps manually during the swim.

### 12.9.3 Teaching swimming styles to Suunto Ambit2

You can teach your Suunto Ambit2 to recognize your swimming style. After teaching the swimming styles, Suunto Ambit2 detects them automatically when you start swimming.

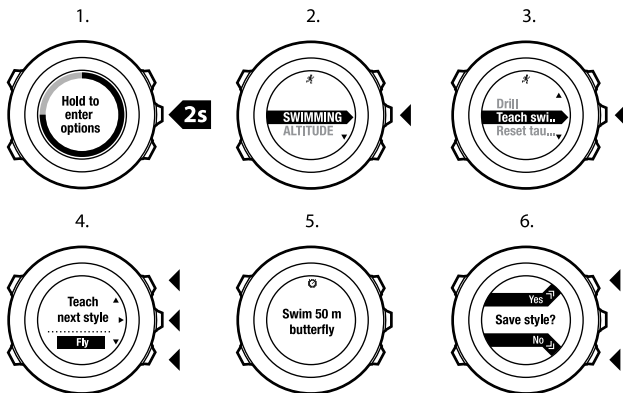
To teach swimming styles:


1. While you are in the **Indoor swimming** mode, keep [Next] pressed to enter the options menu.
2. Press [Next] to select **SWIMMING**.
3. Press [Next] to select **Teach swim style**.
4. Scroll the swimming style options with [Light Lock] and [Start Stop]. Select a suitable swimming style with [Next]. You can exit the setting and continue your exercise by selecting **END**.

The available swimming style options are:

- **FLY** (butterfly)
  - **BACK** (backstroke)
  - **BREAST** (breaststroke)
  - **FREE** (freestyle)
5. Swim the pool length in the swimming style you selected.
  6. After you have finished swimming, press [Start Stop] to save the style. If you do not want to save the style, press [Light Lock] to return to the swimming style selection.





 **TIP:** You can exit teaching swimming styles any time by keeping [Next] pressed.

To reset taught swimming styles back to defaults:

1. In the **Indoor swimming** mode, keep [Next] pressed to enter the options menu.
2. Press [Next] to select **SWIMMING**.
3. Scroll to **Reset taught styles** with [Start Stop] and select with [Next].

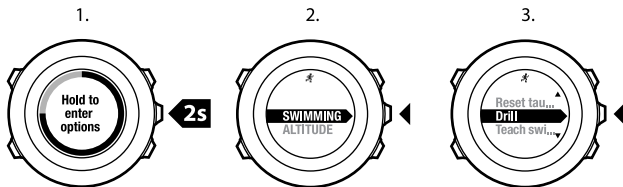
## 12.9.4 Swimming drills

You can do swimming drills any time during your swimming workout. If you do a drill with a non-standard swimming style (for example, using only your legs), you can adjust the drill distance by adding pool lengths manually after the drill, if necessary.


 **NOTE:** Do not add the drill distance until you have finished your drill.

To do a drill:

1. While you are recording your indoor swimming log, keep [Next] pressed to access the options menu.
2. Press [Next] to enter **SWIMMING**.
3. Press [Next] to select **Drill** and start swimming your drill.
4. After you have finished your drill, press [View] to adjust the total distance, if necessary.

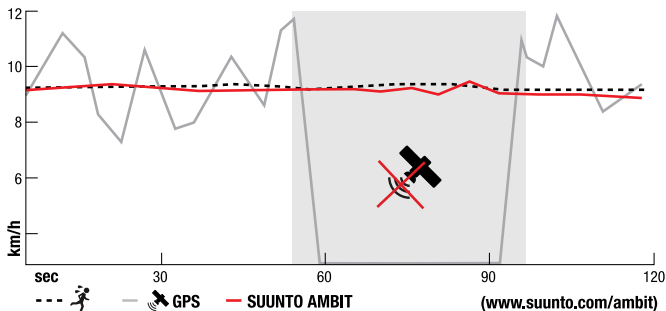


To end the drill, go back to **SWIMMING** in the options menu and select **End drill**.

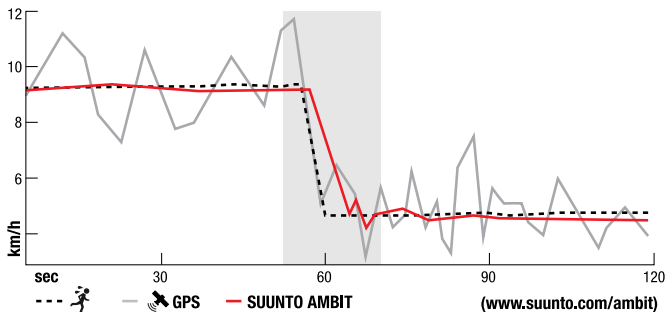
 **TIP:** You can pause the drill by pressing [Start Stop].

## 13 FUSED SPEED

FusedSpeed™ is a unique combination of GPS and wrist acceleration sensor readings for measuring your running speed more accurately. GPS signal is adaptively filtered based on wrist acceleration, giving more accurate readings at steady running speeds and a quicker response to changes in speed.



FusedSpeed™ will benefit you the most when you need highly reactive speed readings during training, for example, when running on uneven terrain or during interval training. If you temporarily lose GPS signal, for example, because buildings block the signal, Suunto Ambit2 is able to continue showing accurate speed readings with the help of the GPS calibrated accelerometer.



**NOTE:** *FusedSpeed™ is meant for running and other similar type of activities.*

**TIP:** *To get the most accurate readings with FusedSpeed™, only glance shortly at the device when needed. Holding the device in front of you without moving it reduces the accuracy.*

FusedSpeed™ is activated automatically with the following sport modes:


- trail running
- triathlon
- running
- soccer
- orienteering
- multisport

- floorball
- football

The other sport modes use the basic GPS speed data.

### **Use example: Running and biking with FusedSpeed™**

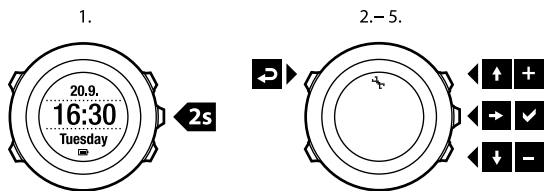
When you change from running to biking, FusedSpeed™ notices that the wrist acceleration is not giving valid speed readings. The device automatically deactivates FusedSpeed™ and provides purely GPS-based speed data for biking. When you change to running after biking, FusedSpeed™ will be automatically activated.

 **NOTE:** *FusedSpeed™ only works properly when using the same sport mode when switching between the activities.*

## 14 ADJUSTING SETTINGS

To access and adjust the settings:

1. Keep [Next] pressed to enter the options menu.
2. Scroll the menu with [Start Stop] and [Light Lock].
3. Press [Next] to enter a setting.
4. Press [Start Stop] and [Light Lock] to adjust the setting values.
5. Press [Back Lap] to return to the previous view in the settings, or keep [Next] pressed to exit the options menu.



You can access the following options:

### **PERSONAL** settings

- **Weight**
- **Max HR**

### **NAVIGATION**

- **POIs (Points of interest)**
- **Location**
- **Routes**

### **GENERAL** settings

## Formats

- **Unit system:**
  - **Metric**
  - **Imperial**
  - **Advanced:** Allows you to customize a mix of imperial and metric settings according to your own liking in Movescount.
- **Position format:**
  - **WGS84 Hd.d°**
  - **WGS84 Hd°m.m'**
  - **WGS84 Hd°m's.s**
  - **UTM**
  - **MGRS**
  - **British (BNG)**
  - **Finnish (ETRS-TM35FIN)**
  - **Finnish (KKJ)**
  - **Irish (IG)**
  - **Swedish (RT90)**
  - **Swiss (CH1903)**
  - **UTM NAD27 Alaska**
  - **UTM NAD27 Conus**
  - **UTM NAD83**
- **Time format:** 12 h or 24 h
- **Date format:** dd.mm.yy, mm/dd/yy

## Time/date

- **GPS timekeeping:** on or off
- **Dual time:** hours and minutes
- **Alarm:** on/off, hours and minutes

- **Time:** hours and minutes
- **Date:** year, month, day

### **Tones/display**

- **Invert display:** inverts the display
- **Button lock**
  - **Time mode lock:** Button lock in **TIME** mode.
    - **Actions only:** Start and options menus are locked.
    - **All buttons:** All buttons are locked. Backlight can be activated in **Night** mode.
  - **Sport mode lock:** Button lock in sport modes.
    - **Actions only:** [Start Stop], [Back Lap] and the options menu are locked during exercise.
    - **All buttons:** All buttons are locked. Backlight can be activated in **Night** mode.
- **Tones:**
  - **All on:** button tones and system tones are activated
  - **Buttons Off:** only system tones are activated
  - **All off:** all tones are off



**NOTE:** *The alarm will sound even when all tones are off.*

### ● **Backlight**

#### **Mode:**

- **Normal:** The backlight is switched on for a few seconds when you press [Light Lock] and when the alarm sounds.



- **Off:** The backlight is not switched on by pressing a button or when the alarm sounds.
- **Night:** The backlight is switched on for a few seconds when you press any button and when the alarm sounds. Using the **Night** mode significantly reduces battery duration.
- **Toggle:** The backlight is switched on when you press [Light Lock]. It stays on until you press [Light Lock] again.

**Brightness:** Adjust backlight brightness (in percentages).

- **Display contrast:** Adjust the display contrast (in percentages).

### Compass

- **Calibration:** Start compass calibration.
- **Declination:** Set the compass declination value.

### Map

- **Orientation**
  - **Heading up:** Displays the zoomed-in map with the heading pointing up.
  - **North up:** Displays the zoomed-in map with the north pointing up.

### ALTI-BARO settings

- **FusedAlti:** Set FusedAlti on/off.
- **Profile:** altimeter, barometer, automatic
- **Reference:** altitude, sea level

### PAIR settings

- **Bike PODs:** Pair a Bike POD.
- **Power POD:** Pair a Power POD.
- **HR belt:** Pair a HR belt.

- **Foot POD:** Pair a Foot POD.
- **Cadence POD:** Pair a Cadence POD.


## 14.1 Service menu

To access the service menu, keep [Back Lap] and [Start Stop] pressed simultaneously until the device enters the service menu.



The service menu includes the following items:

- **INFO:**
  - **Air pressure:** shows the current absolute air pressure and temperature.
  - **Version:** shows the current software and hardware version of your Suunto Ambit2.
- **TEST:**
  - **LCD test:** allows you to test that the LCD works properly.
- **ACTION:**
  - **Sleep mode:** allows to put the device to sleep.
  - **GPS reset:** allows you to reset GPS.

 **NOTE:** Resetting GPS resets GPS data, compass calibration values, alti/baro graphs and recovery time. However, your recorded logs will not be removed.

 **NOTE:** Service menu content is subject to change without notice during updates.


## Sleep mode

You can put your Suunto Ambit2 into sleep mode, if you are not using it for a while to save battery duration.

To put the device into sleep mode:

1. In the service menu, scroll to **ACTION** with [Light Lock] and enter with [Next].
2. Press [Next] to select **Sleep mode**.
3. Press [Start Stop] to confirm, or press [Light Lock] to cancel.

To activate the device from sleep mode, press any button.

 **NOTE:** The device switches to power saving mode when it is static for 30 minutes. The device re-activates when moved.

## Resetting GPS

In case GPS is not working properly, you can reset GPS data in the service menu.

To reset GPS:

1. In the service menu, scroll to **ACTION** with [Light Lock] and enter with [Next].
2. Press [Light Lock] to scroll to **GPS reset** and enter with [Next].
3. Press [Start Stop] to confirm GPS reset, or press [Light Lock] to cancel.

## 14.2 Changing language

The default language in your Suunto Ambit2 is English. To change the language, connect the device to your computer and download additional languages from Movescount. The languages available are English, French, Spanish, German, Finnish, Swedish, Italian, Portuguese and Dutch.

## 15 PAIRING POD/HEART RATE BELT

Pair your Suunto Ambit2 with optional Suunto PODs (Bike POD, Power POD, heart rate belt, Foot POD or Cadence POD) and ANT+ PODs to receive additional speed, distance, power and cadence information during exercise. Visit [www.thisisant.com/directory](http://www.thisisant.com/directory) for a list of compatible ANT+ products.

You can pair up to six PODs at a time:

- three Bike PODs (only one Bike POD can be used at a time)
- one Cadence POD
- one Foot POD
- one Power POD

If you pair more PODs, Suunto Ambit2 remembers the latest paired POD of each POD type.

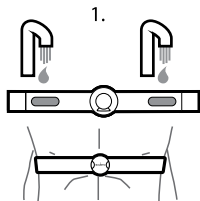
The heart rate belt and/or POD included in your Suunto Ambit2 package are already paired. Pairing is required only if you want to use a new heart rate belt or a POD with the device.

To pair a POD/heart rate belt:

1. Activate the POD/heart rate belt:
  - Bike POD: rotate the tire with the installed Bike POD.
  - Power POD: rotate the crank or tire with the installed Power POD.
  - Heart rate belt: moisten the contact areas and put on the belt.
  - Cadence POD: rotate the bike pedal with the installed Cadence POD.
  - Foot POD: tilt Foot POD 90 degrees.
2. Keep [Next] pressed to enter the options menu.
3. Scroll to **PAIR** with [Light Lock] and enter with [Next].
4. Scroll the accessory options **Bike POD, Power POD, HR belt, Foot POD** and **Cadence POD** with [Start Stop] and [Light Lock].

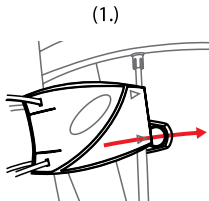
5. Press [Next] to select a POD or heart rate belt and start pairing.
6. Hold your Suunto Ambit2 close to the POD/belt (<30 cm) and wait for the device to notify that the POD/belt has been paired.

If the pairing fails, press [Start Stop] to retry, or [Light Lock] to return to the pairing setting.



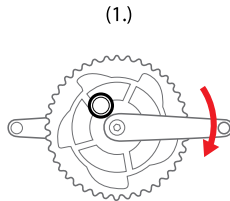
SUUNTO COMFORT BELT

(1.)

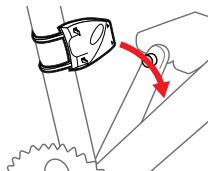


SUUNTO BIKE POD

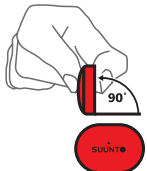
(1.)



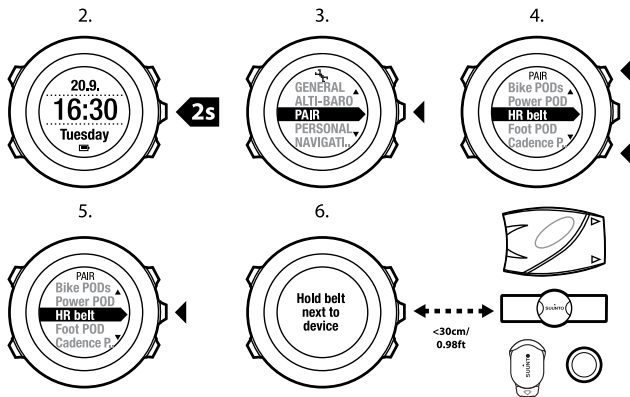
POWER POD





SUUNTO CADENCE POD



SUUNTO FOOT POD



 **NOTE:** You can pair different types of power PODs with your Suunto Ambit2. For more information, see the power POD user guide.

 **TIP:** You can also activate the heart rate belt by moistening and pressing both electrode contact areas.

### Troubleshooting: Heart rate belt pairing fails


If the heart rate belt pairing fails, try the following:

- Check that the strap is connected to the module.

- Check that you are wearing the heart rate belt correctly (see *Section 12.4 Putting on heart rate belt on page 72*).
  - Check that the electrode contact areas of the heart rate belt are moist.
- For more information on pairing PODs, see the POD user guide.

## 15.1 Calibrating PODs

You can use your Suunto Ambit2 to calibrate Suunto Foot POD for accurate speed and distance measurement. Perform the calibration on an accurately measured distance, for instance, on a 400 meter running track.


 **NOTE:** *Foot POD refers to both Suunto Foot POD Mini and Suunto ANT+ Foot POD.*

To calibrate Suunto Foot POD with Suunto Ambit2:

1. Attach Suunto Foot POD to your shoe. For more information, see Suunto Foot POD Mini Quick Guide or Suunto Foot POD User Guide.
2. Choose a sport mode (for example **Running**) in the start menu.
3. Start running at your usual pace. When you cross the starting line, press [Start Stop] to start the recording.
4. Run a distance of 800–1000 meters (about 0.500–0.700 miles) at your usual pace (for example two laps on a 400 meter track).
5. Press [Start Stop] when you reach the finish line to pause the recording.
6. Press [Back Lap] to stop recording. After stopping the exercise, save the log by pressing [Start Stop]. If you do not want to save the log, press [Light Lock].

Scroll with [Next] through summary views, until you reach the distance summary. Adjust the distance shown on the display to the actual distance you ran with [Start Stop] and [Light Lock]. Confirm with [Next].

7. Confirm the POD calibration by pressing [Start Stop]. Your Foot POD has now been calibrated.


















 **NOTE:** *If the Foot POD connection was unstable during the calibration exercise, you might not be able to adjust the distance in the distance summary. Make sure that Foot POD is attached properly according to instructions and try again.*

To calibrate Suunto Bike POD, set the bike tire circumference in Movescount. Movescount calculates a calibration factor. The default calibration factor is 1.0, which stands for a 26" cross-country bike tire.



## 16 ICONS

For example the following icons are displayed in Suunto Ambit2:

	barometer
	altimeter
	chronograph
	settings
	GPS signal strength
	pairing
	heart rate
	sport mode
	alarm
	interval timer
	button lock
	battery
	current screen
	button indicators
	up/increase
	next/confirm
	down/decrease

## POI icons

The following POI icons are available in Suunto Ambit2:

	building/home
	car/parking
	camp/camping
	food/restaurant/cafe
	lodging/hostel/hotel
	water/river/lake/coast
	mountain/hill/valley/cliff
	forest
	crossroad
	sight
	begin
	end
	geocache
	waypoint
	road/trail
	rock
	meadow
	cave

## 17 TERMINOLOGY

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Autolap	With <b>AUTOLAP</b> , you can define laps in distance instead of time.
Format	The way in which the GPS receiver's position will be displayed on the wrist unit. Commonly displayed as latitude/longitude in degrees and minutes, with options for degrees, minutes and seconds, degrees only, or one of several grid formats.
FusedAlti™	FusedAlti™ is a combination of GPS and barometric altitude. It minimizes the effect of temporary and offset errors in the final altitude reading.
FusedSpeed™	FusedSpeed™ is a unique combination of GPS and acceleration sensor readings for more accurate running speed. The GPS signal is adaptively filtered based on acceleration, giving a more accurate reading at steady running speeds and a quicker response to changes in speed. FusedSpeed™ is meant for running and other similar type of activities.
Grid	A grid system is a set of lines that cross each other at right angles on a map. Grid systems allow you to locate or report on a specific point on the map.
Heart rate limits	Go to Movescount to specify your upper and lower heart rate limits. Transfer the settings to your device.

Lap time	Duration of the current lap. When making a new lap, the duration restarts and the device starts to count a new lap time. When making a lap during exercise, you will see a lap pop-up window on the display with e.g. lap number "1", "2"...
Navigation	Travelling to a given waypoint with knowledge of the current position in relation to the waypoint.
Peak Training Effect	<p>Peak Training Effect is a parameter that indicates the impact of a training session on your maximal aerobic performance (<math>\text{VO}_2\text{max}</math>).</p> <p>Go to Movescount to select it to be displayed during your exercise. After you have selected Peak Training Effect to be displayed, you can see the estimated effect of the session on your peak performance on a scale of 1 to 5, from minor to overreaching, during exercise.</p> <p>Peak Training Effect works best in medium to high intensity training at a constant intensity level. It is not ideal for quantifying low intensity workouts. Base endurance training, regardless of how long and tiring the session is, will have a low Peak Training Effect.</p>
Point of interest (POI)	Position coordinates of a single point stored in Suunto Ambit2 memory.
Position	Exact map coordinates of a given position.
Route	A route consists of several waypoints. You can create a route in Movescount and download it to Suunto Ambit2.
Split time	Time from log start at any given point during exercise.

Suunto App	Suunto Apps can be created in Movescount for adding new features to Suunto Ambit2. You can add Suunto Apps to custom sport modes in Movescount and synchorize them to your device.
Suunto App Designer	Suunto App Designer is an easy-to-use graphical tool that gives everyone the possibility to create new features. Registration to Movescount is required. You can find Suunto App Designer in Movescount.
Suunto App Zone	You can find existing Suunto Apps in Suunto App Zone in Movescount. You can browse Suunto App Zone also without registering to Movescount.
SWOLF	SWOLF is used to calculate swimming efficiency. It is a combination of swim time and number of strokes at a specific distance.
Track	Track is the path traversed by the user.
Waypoint	Position coordinates of a point in a route. A route consists of several waypoints.

## 18 CARE AND MAINTENANCE

Handle the unit with care – do not knock or drop it.

Under normal circumstances the device will not require servicing. After use, rinse it with fresh water, mild soap, and carefully clean the housing with a moist soft cloth or chamois.

For more information on care and maintenance of the unit, refer to the comprehensive range of support materials, including Questions and Answers and instruction videos, available at [www.suunto.com](http://www.suunto.com). There you can also post questions directly to Suunto Contact Center or get instructions on how to get your product repaired by an authorized Suunto Service, if needed. Do not repair the unit yourself.

Alternatively, you may contact Suunto Contact Center at the phone number listed on the last page of this document. Suunto's qualified customer support staff will help you and, if needed, troubleshoot your product during the call.

Use only original Suunto accessories - damage caused by non-original accessories is not covered by warranty.




**TIP:** Remember to register your Suunto Ambit2 in MySuunto at [www.suunto.com/register](http://www.suunto.com/register) to get personalized support for your needs.

### 18.1 Water resistance

Suunto Ambit2 is water resistant to 100 meters/330 feet/10 bars. The meter value relates to an actual diving depth and is tested in the water pressure used in the course of the Suunto water resistance test. This means you can use the

watch for swimming and snorkeling, but it should not be used for any form of diving.


 **NOTE:** *Water resistance is not equivalent to functional operating depth. The water resistance marking refers to static air/water tightness withstanding shower, bathing, swimming, poolside diving and snorkeling.*

To maintain water resistance, it is recommended to:


- never push the buttons while submerged.
- never use the device for other than intended use.
- contact an authorized Suunto service, distributor or retailer for any repairs.
- keep the device clean from dirt and sand.
- never attempt to open the case yourself.
- avoid subjecting the device to rapid air and water temperature changes.
- always clean your device with fresh water if subjected to salt water.
- never direct water pressure flow towards buttons.
- never knock or drop the device.


## 18.2 Charging the battery

The battery duration on a single charge depends on how Suunto Ambit2 is used. The duration ranges from 15 to 50 hours or more. With basic watch functionality this can be up to 30 days. For more information on battery life, see *Chapter 19 Technical specification on page 122*.

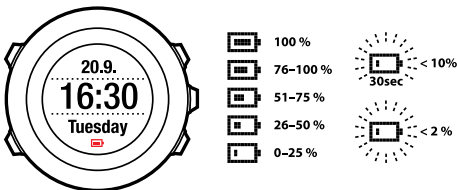
 **NOTE:** *Low temperatures reduce the duration of a single charge.*

 **NOTE:** *The capacity of rechargeable batteries decreases over time.*


 **NOTE:** In case of abnormal capacity decrease due to defective battery, Suunto warranty covers the battery replacement for 1 year or for at maximum 300 charging times, whichever comes first.

 **TIP:** If the device is taking GPS fix each second, the charge lasts at least ~15 hours. If the device is taking GPS fix only every 60 seconds, the duration of the charge is ~50 hours.

The battery icon indicates the charge level of the battery. When the battery charge level is less than 10 %, the battery icon blinks for 30 seconds. When the battery charge level is less than 2 %, the battery icon blinks continuously.



Charge the battery by attaching it to your computer with the Suunto USB cable, or charge with the USB-compatible Suunto wall charger. It takes approximately 2-3 hours to fully charge an empty battery.

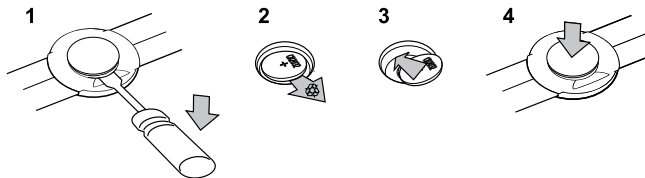
 **TIP:** Go to Movescount to change the GPS fix and recording rate of a sport mode to save battery life.



## 18.3 Replacing HR belt battery

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Replace the battery as illustrated here:



# 19 TECHNICAL SPECIFICATION

## General

- operating temperature: -20° C to +60° C/-5° F to +140° F
- battery charging temperature: 0° C to +35° C/+32° F to +95° F
- storage temperature: -30° C to +60° C/-22° F to +140° F
- weight: 82 g/2.89 oz (silver), 89 g/3.14 oz (black), 92 g/3.25 oz (sapphire)
- water resistance (device): 100 m/328 ft/10 bar
- water resistance (HR belt): 20 m/66 ft (ISO 2281)
- lens: mineral crystal glass
- power: rechargeable lithium-ion battery
- battery duration (single charge):
  - ~ 16 hours with 1 sec interval
  - ~ 50 hours with 60 sec interval
  - ~ 30 days in **ALTI/BARO/COMPASS** mode (without GPS)

## Memory

- waypoints: max. 100

## Radio receiver

- Suunto ANT and ANT+<sup>TM</sup> compatible
- communication frequency:
  - ANT+ > 2.457 GHz
  - ANT > 2.456 GHz
- modulation method GFSK
- range: ~2 m/6 ft



## **Barometer**

- display range: 950...1060 hPa/28.34...31.30 inHg
- resolution: 1 hPa/0.01 inHg

## **Altimeter**

- display range: -500 m...9000 m/-1500 ft...29500 ft
- resolution: 1 m/3 ft

## **Thermometer**

- display range: -20° C to +60° C /-4° F to +140° F
- resolution: 1° C/1° F

## **Chronograph**

- resolution: 1 s until 9:59'59, after that 1 min

## **Compass**

- resolution: 1 degree/18 mils

## **GPS**

- technology: SiRF star IV
- resolution: 1 m/3 ft

## 19.1 Trademark

Suunto Ambit2, its logos, and other Suunto brand trademarks and made names are registered or unregistered trademarks of Suunto Oy. All rights are reserved.

## 19.2 FCC compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation. This product has been tested to comply with FCC standards and is intended for home or office use.

***FCC WARNING:*** *Changes or modifications not expressly approved by Suunto could void your authority to operate this device under FCC regulations.*

## 19.3 IC

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## 19.4 CE

Suunto Oy hereby declares that this wristop computer is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

## 19.5 Copyright

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## 19.6 Patent notice

This product is protected by pending patent applications and their corresponding national rights: US 11/169,712, US 12/145,766, US 61/649,617, US 61/649,632, FI20116231, USD 603,521, EP 11008080, EU designs 001296636-0001/0006, 001332985-0001 or 001332985-0002 USD 29/313,029, USD 667,127, (HR belt: US 7,526,840, US 11/808,391, US 13/071,624, US 61/443,731). Additional patent applications have been filed.

## 19.7 Warranty

### SUUNTO LIMITED WARRANTY

Suunto warrants that during the Warranty Period Suunto or a Suunto Authorized Service Center (hereinafter Service Center) will, at its sole discretion, remedy

defects in materials or workmanship free of charge either by a) repairing, or b) replacing, or c) refunding, subject to the terms and conditions of this Limited Warranty. This Limited Warranty is only valid and enforceable in the country of purchase, unless local law stipulates otherwise.

## **Warranty Period**

The Limited Warranty Period starts at the date of original retail purchase. The Warranty Period is two (2) years for display devices. The Warranty Period is one (1) year for accessories including but not limited to PODs and heart rate transmitters, as well as for all consumable parts.

The capacity of rechargeable batteries decreases over time. In case of abnormal capacity decrease due to defective battery, Suunto warranty covers the battery replacement for 1 year or for at maximum 300 charging times, whichever comes first.

## **Exclusions and Limitations**

This Limited Warranty does not cover:

1. a) normal wear and tear, b) defects caused by rough handling, or c) defects or damage caused by misuse contrary to intended or recommended use;
2. user manuals or any third-party items;
3. defects or alleged defects caused by the use with any product, accessory, software and/or service not manufactured or supplied by Suunto;

This Limited Warranty is not enforceable if item:

1. has been opened beyond intended use;
2. has been repaired using unauthorized spare parts; modified or repaired by unauthorized Service Center;

3. serial number has been removed, altered or made illegible in any way, as determined at the sole discretion of Suunto;
4. has been exposed to chemicals including but not limited to mosquito repellents.

Suunto does not warrant that the operation of the Product will be uninterrupted or error free, or that the Product will work with any hardware or software provided by a third party.

### **Access to Suunto warranty service**

You must have proof of purchase to access Suunto warranty service. For instructions how to obtain warranty service, visit [www.suunto.com/support](http://www.suunto.com/support). If you have questions or doubts, a comprehensive range of support materials is available there, or you can post a question directly to Suunto Contact Center. Alternatively, you may contact Suunto Contact Center at the phone number listed on the last page of this document. Suunto's qualified customer support staff will help you and, if needed, troubleshoot your product during the call.

### **Limitation of Liability**

To the maximum extent permitted by applicable mandatory laws, this Limited Warranty is your sole and exclusive remedy and is in lieu of all other warranties, expressed or implied. Suunto shall not be liable for special, incidental, punitive or consequential damages, including but not limited to loss of anticipated benefits, loss of data, loss of use, cost of capital, cost of any substitute equipment or facilities, claims of third parties, damage to property resulting from the purchase or use of the item or arising from breach of the warranty, breach of contract, negligence, strict tort, or any legal or equitable theory, even if Suunto knew of the likelihood of such damages. Suunto shall not be liable for delay in rendering warranty service.





# Index

## A

- adjusting display contrast, 19
- after exercise, 87–88
- alarm, 24
- Alti & Baro mode, 49
  - Altimeter profile, 54
  - Automatic profile, 56
  - Barometer profile, 55
  - correct readings, 50
  - incorrect readings, 50
  - profiles, 51–52
  - recording altitude, 77
  - reference value, 51–52
- altitude
  - recording, 77
  - setting altitude manually, 80
- altitude reference value, 52
- autopause, 85

## B

- backlight, 12
- battery
  - charging, 119

- HR belt, 121
- button lock, 12
- buttons, 11

## C

- calibrating
  - compass, 61
  - Foot POD Mini, 111
  - Suunto Bike POD, 111
- charging the battery, 14
- compass, 61
  - calibrating, 61
  - declination value, 63
  - during exercise, 80
- customizing, 15
- custom sport modes, 17

## D

- display contrast, 19
- dual time, 23
- during exercise, 76
  - compass, 80
  - navigating, 83
- dynamic summary, 88

## **F**

finding back, 84  
FusedAlti, 52, 77  
    enabling, 58  
    measuring altitude, 58  
FusedSpeed, 99

## **G**

GPS, 27  
    resetting, 107  
    troubleshooting, 28  
GPS timekeeping, 25  
grids, 28

## **H**

heart rate belt, 71–72  
    pairing, 108

## **I**

icons, 113  
interval timer, 81  
inverting display, 18

## **L**

language, 107  
laps, 76  
location, 30

logbook, 87

## **M**

maintenance, 118  
measuring altitude  
    FusedAlti, 58  
Movescount  
    connecting to, 15  
    Suunto App, 18  
    Suunto App Designer, 18  
    Suunto App Zone, 18  
multisport training, 90  
    preconfigured multisport mode,  
    91

## **N**

navigating  
    during exercise, 83  
    finding back, 84  
    point of interest (POI), 36  
    route, 42  
    troubleshooting, 28

## **P**

pairing  
    heart rate belt, 108  
    POD, 108  
POD

- pairing, 108
- POI icons, 114
- point of interest (POI)
  - adding coordinates manually, 33
  - adding current location, 31
  - deleting, 39
  - navigating, 36
- position formats, 28

## R

- recording altitude, 77
- recording tracks, 76
- recovery time, 89
- resetting GPS, 107
- route
  - adding, 41
  - deleting, 48
  - navigating, 42

## S

- sea level pressure value, 52
- service menu, 106
- settings, 102
  - alarm, 24
  - date, 22
  - dual time, 23
  - GPS timekeeping, 25
  - time, 21–22

- sleep mode, 107
- sport mode
  - after exercise, 87–88
  - during exercise, 76
  - starting exercise, 74
- sport modes, 17, 69
  - additional options, 70
- starting exercise, 74
- stopwatch, 66

- activating, 65
- deactivating, 65
- laps, 66
- pausing, 66
- resetting, 66
- Suunto App, 18
- Suunto App Designer, 18
- Suunto App Zone, 18
- Suunto Foot POD, 111
- swimming, 92

## T

- time mode, 21
- timers
  - stopwatch, 66

- time settings, 21
  - GPS timekeeping, 25
- troubleshooting
  - heart rate signal, 72

## **U**

- updating software, 16

## **W**

- waypoints, 41–42



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