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# Continuous Jump

Performing the Continuous Jump

Test Results

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Performing the Test

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Performing the test

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CONGRATULATIONS ON YOUR NEW V800! Designed for demanding athletes and sports, the V800 with GPS, Smart Coaching and 24/7 activity measurement helps you reach your peak performance. Get an instant overview of your training straight after your session with Flow app, and plan and analyze your training in detail with the Flow web service.

This user manual helps you get started with your new training companion. To check the video tutorials and the latest version of this user manual, go to www.polar.com/en/support/v800.
V800

Monitor your training data, such as heart rate, speed, distance and route, and even the smallest activities in your everyday life.

H7 HEART RATE SENSOR*

See live, accurate heart rate on your V800 during training, also when swimming. Your heart rate is information used to analyze how your session went.

USB CABLE

Use the custom USB cable to charge the battery, and to sync data between your V800 and the Polar Flow web service via FlowSync software.

POLAR FLOW APP

View your training data at a glance after every session. Flow app syncs your training data wirelessly to the Polar Flow web service. Download it from the App Store or Google Play.

POLAR FLOWSYNC SOFTWARE

Flowsync software allows you to sync data between your V800 and the Flow web service on your computer via the USB cable. Go to www.flow.polar.com/start to download and install Polar FlowSync software.

POLAR FLOW WEB SERVICE

Plan and analyze every detail of your training, customize your device and learn more about your performance at polar.com/flow.

*Only included in V800 with heart rate sensor sets. If you bought a set that does not include a heart rate sensor, not to worry, you can always buy one later.

CHARGE THE BATTERY

After unboxing your V800, the first thing you need to do is charge the battery. Let your V800 fully charge before taking it into use for the first time.

The V800 has an internal, rechargeable battery. Use the custom USB cable included in the product set to charge it via the USB port on your computer. You can also charge the battery via a wall outlet. When
charging via a wall outlet use a USB power adapter (not included in the product set). If you use an AC adapter, make sure that the adapter is marked with "output 5Vdc 0.5A - 2A max". Only use an AC adapter which is adequately safety approved (marked with "LPS", "Limited Power Supply" or "UL listed"). Do not charge the battery in temperatures under -10 °C or over +50 °C.

You can charge the battery via a wall outlet. When charging via a wall outlet, use a USB power adapter (not included in the product set). If you use a USB power adapter, make sure that the adapter is marked with "output 5Vdc" and that it provides a minimum of 500mA. Only use an adequately safety approved USB power adapter (marked with "LPS", "Limited Power Supply", "UL listed" or "CE").

Do not charge Polar products with a 9 volt charger. Using a 9 volt charger can damage your Polar product.

1. Snap the custom USB connector onto your V800.
2. Plug the other end of the cable into your computer's USB port.
3. Charging appears on the display.
4. When V800 is fully charged, Charging completed is displayed.

Make sure the USB connector snaps firmly into place, and that the Polar logo on the USB connector and V800 are facing the same direction.
**BATTERY OPERATING TIME**

<table>
<thead>
<tr>
<th>In continuous use</th>
<th>In time mode with daily activity monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>With high accuracy GPS recording and heart rate: up to 13 hours</td>
<td></td>
</tr>
<tr>
<td>With medium accuracy GPS recording and heart rate: up to 20 hours</td>
<td>Approximately 30 days</td>
</tr>
<tr>
<td>With GPS power save mode and heart rate: up to 50 hours</td>
<td></td>
</tr>
<tr>
<td>With GPS recording off and heart rate on: up to 100 h</td>
<td></td>
</tr>
</tbody>
</table>

Battery operating time depends on many factors, such as the temperature of the environment in which you use your training device, the features and sensors you use, and battery aging. The operating time is significantly reduced in temperatures well below freezing. Wearing the training device under your overcoat helps to keep it warmer and to increase the operating time.

**LOW BATTERY NOTIFICATIONS**

**Battery low. Charge**

The battery charge is low. It is recommended to charge V800.

**Charge before training**

The charge is too low for recording a training session. A new training session cannot be started before charging V800.
When the display is blank, the battery is empty and V800 has gone to sleep mode. Charge your V800. If the battery is totally drained, it may take a while for the charging animation to appear on the display.

**BASIC SETTINGS**

To make sure you get to enjoy your V800 at its best, please go to [flow.polar.com/start](http://flow.polar.com/start) where simple instructions will guide you through setting up your V800, downloading the latest firmware and taking the Flow web service into use. **If you already have a Polar Account, you don’t need to register a new account in the Flow web service.** You can sign in with the same username and password you are using e.g. with polarpersonaltrainer.com.

After charging your V800, it's time to enter the basic settings. To get the most accurate and personal training data, it's important that you're precise with physical settings like your training background, age, weight and sex, as they have an effect on calorie calculation, your training load as well as other Smart Coaching features.

**Choose language** is displayed. Press start to choose **English**.

If you choose a language other than **English**, you will be guided to go to [polar.com/flow](http://polar.com/flow) to get the language. When taking V800 into use with the Flow web service, you can add another language during the setup. To add another language later, go to [polar.com/flow](http://polar.com/flow) and sign in. Click your name/profile photo in the upper right corner, choose Products, and then V800 Settings. Choose the language you want from the list, and sync with your V800. The languages you can choose are: **Dansk, Deutsch, English, Español, Français, Italiano, 日本語, Nederlands, Norsk, Português, 简体中文, Suomi or Svenska.**

If you choose English, **Set up your Polar V800** is displayed. Set the following data, and confirm each selection with the **Start** button. If at any point you want to return and change a setting, press **Back** until you reach the setting you want to change.

1. **Time format**: Choose **12 h** or **24 h**. With **12 h**, select **AM** or **PM**. Then set the local time.
2. **Date**: Enter the current date.
3. **Units**: Choose metric (kg, cm, °C) or imperial (lb, ft, °F) units.
4. **I wear my product on**: Choose **Left hand** or **Right hand**.
5. **Weight**: Enter your weight.
6. **Height**: Enter your height.
7. **Date of birth**: Enter your date of birth.
8. **Sex**: Select Male or Female.
9. **Training background**: Occasional (0-1 h/week), Regular (1-3 h/week), Frequent (3-5 h/week), Heavy (5-8 h/week), Semi-Pro (8-12 h/week), Pro (12+ h/week). For more information on training background, see "Physical Settings" on page 46.
10. **Ready to go!** is displayed when you're done with the settings, and V800 goes to time view.

**BUTTON FUNCTIONS, GESTURES AND MENU STRUCTURE**

V800 has five buttons that have different functionalities depending on the situation of use. In addition to these, V800 also includes taps gestures. They're performed by tapping the display of your V800, and allow you to view information on the display or perform functions during training.

See the tables below to find out what functionalities the buttons have in different modes.

**BUTTON FUNCTIONS**

**TIME VIEW AND MENU**

| LIGHT | • Illuminate the display  
• Press and hold to enter Quick menu |
<p>| BACK | • Exit the menu |</p>
<table>
<thead>
<tr>
<th><strong>RETURN TO PREVIOUS LEVEL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Return to the previous level</td>
</tr>
<tr>
<td>Leave settings unchanged</td>
</tr>
<tr>
<td>Cancel selections</td>
</tr>
<tr>
<td>Press and hold to return to time view from menu</td>
</tr>
<tr>
<td>Press and hold to sync with Flow app in time view</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>START</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Confirm selections</td>
</tr>
<tr>
<td>Enter pre-training mode</td>
</tr>
<tr>
<td>Confirm the selection shown on the display</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>UP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Move through selection lists</td>
</tr>
<tr>
<td>Adjust a selected value</td>
</tr>
<tr>
<td>Press and hold to change the watch face</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DOWN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Move through selection lists</td>
</tr>
<tr>
<td>Adjust a selected value</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TAP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Check your recovery status in Time View</td>
</tr>
</tbody>
</table>

**PRE-TRAINING MODE**

<table>
<thead>
<tr>
<th><strong>LIGHT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Press and hold to enter sport profile settings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BACK</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Return to time view</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>START</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Start a training session</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>UP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Move through sports list</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DOWN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Move through sports list</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TAP</strong></th>
</tr>
</thead>
</table>

**DURING TRAINING**

<table>
<thead>
<tr>
<th><strong>LIGHT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Illuminate the display</td>
</tr>
<tr>
<td>Press and hold to enter Training Quick Menu</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BACK</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pause training by pressing once</td>
</tr>
<tr>
<td>Press and hold for 3 seconds to stop training recording</td>
</tr>
<tr>
<td>Enter transition mode in multisport training</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>START</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Press and hold to set zone lock on/off</td>
</tr>
<tr>
<td>Continue training recording when paused</td>
</tr>
<tr>
<td>Press to take a lap</td>
</tr>
</tbody>
</table>
TAP GESTURES

The tap gesture allows you to view information on the display or perform functions during training. With the tap gesture, you can view your recovery status in time mode or take a lap, change the training view or activate the backlight during training. The gestures are performed by firmly tapping the display. Just gently touching it is not enough. The display can be tapped with two fingers using a reasonable amount of force, the glass will not break with a solid tap.

The sport specific tap sensitivity setting allows you to adjust the sensitivity to best suit different sports. To change the sport specific tap sensitivity (how hard you have to tap during a session), go to Settings > Sport profiles, and under the sport you want to edit choose Sport specific tap sensitivity. To change the time mode tap sensitivity (how hard you have to tap to view your recovery status), go to Settings > General settings > Time mode tap sensitivity. Try out different sensitivities to find out which works best for you in different sports, and which setting is best for use in time mode. The sensitivity can be set to Light tap, Normal tap, Strong tap, Very strong tap or Off.

The sport specific tap sensitivity can also be changed during a session from Quick menu. Press and hold LIGHT and choose Sport specific tap sensitivity.

You can customize the tap functions in your Sport Profile settings in the Polar Flow web service.

HEARTTOUCH

Use the HeartTouch function to easily show the time, activate backlight or show your previous lap. Just touch your heart rate sensor with your V800. No buttons needed. You can edit the HeartTouch functions in the Sport Profile Settings in the Flow web service. For more information, see "Sport Profiles" on page 106.

MENU STRUCTURE

Enter and browse through the menu by pressing UP or DOWN. Confirm selections with the START button, and return with the BACK button.
In the menu you'll find:

- Status
- Today's activity
- Diary
- Settings
- Tests
- Timers
- Favorites

**STATUS**

In Status you'll find:

- **Recovery status**: Shows your recovery level. For more information, "Recovery Status” on page 78

For more information, see "Status" on page 71

**TODAY'S ACTIVITY**

The daily activity goal you get from Polar V800 is based on your personal data and activity level setting, which you can find in the Daily Activity Goal settings in the Flow web service.

Your daily activity goal is visualized with an activity bar. The activity bar fills up as you reach your daily goal. In Today's activity you'll see details of your activity (active time, calories and steps) and options for reaching your daily activity goal.

For more information, see "Activity Tracking" on page 80
DIARY

In Diary you’ll see the current week, past four weeks and next four weeks. Select a day to see all the sessions from that day, and the training summary of each session and the tests you have done. You can also see your planned training sessions.

SETTINGS

In Settings you can edit:

- Sport profiles
- Physical settings
- General settings
- Watch settings

For more information, see "Settings" on page 43

TESTS

In Tests you’ll find:

- Orthostatic test
- Fitness test
- Jump test
- RR recording

For more information, see "Features" on page 73

TIMERS

In Timers you’ll find:

- Stopwatch
- Countdown timer
- Interval timer

FAVORITES

In Favorites you’ll find:

- Race Pace, routes and training targets that you have saved as favorites in the Flow web service.

For more information, see "Race Pace" on page 76
COMPATIBLE SENSORS

Enhance your training experience, and achieve a more complete understanding of your performance with Bluetooth® Smart sensors.

POLAR STRIDE SENSOR BLUETOOTH® SMART

The Stride Sensor Bluetooth® Smart is for runners who want to improve their technique and performance. It allows you to see speed and distance information, whether you are running on a treadmill or on the muddiest trail.

- Measures each stride you take to show running speed and distance
- Helps improve your running technique by showing your running cadence and stride length
- Allows you to perform the Jump Test
- Small sensor fits firmly onto your shoelaces
- Shock and water resistant, to handle even the most demanding runs

POLAR SPEED SENSOR BLUETOOTH® SMART

There are a range of factors that can affect your cycling speed. Obviously fitness is one of them, however, weather conditions and the varying gradients of the road play a huge part too. The most advanced way of measuring how these factors affect your performance speed is with the aerodynamic speed sensor.

- Measures your current, average and maximum speeds
- Track your average speed to see your progress and performance improve
- Light yet tough, and easy to attach

POLAR CADENCE SENSOR BLUETOOTH® SMART

The most practical way of measuring your cycling session is with our advanced wireless cadence sensor. It measures your real-time, average and maximum cycling cadence as revolutions per minute so you can compare the technique of your ride against previous rides.

- Improves your cycling technique and identifies your optimal cadence
- Interference-free cadence data lets you evaluate your individual performance
- Designed to be aerodynamic and light

POLAR LOOK KÉO POWER

Truly develop your cycling performance and technique. Perfect for ambitious cyclists, this system uses Bluetooth® Smart technology and consumes only a little energy.
Gives instant feedback by measuring accurate power output in watts
Displays your left and right balance as well as the current and average cadence
Shows how you use force against the pedal with the force vector feature
Easy to set up and switch between bikes

PAIRING

Sensors compatible with V800 use Bluetooth Smart ® wireless technology. Before taking a new heart rate sensor, running sensor, cycling sensor or mobile device (smartphone, tablet) into use, it has to be paired with your V800. Pairing only takes a few seconds, and ensures that your V800 receives signals from your sensors and devices only, and allows disturbance-free training in a group. Before entering an event or race, make sure that you do the pairing at home to prevent interference due to data transmission.

PAIR A HEART RATE SENSOR WITH V800

There are two ways to pair a heart rate sensor with your V800:

1. Wear your heart rate sensor, and press START in time view to enter pre-training mode.
2. To pair, touch your sensor with V800 is displayed, touch your heart rate sensor with V800, and wait for it to be found.
3. The device ID Pair Polar H7 xxxxxxxxx is displayed. Choose Yes.
4. Pairing completed is shown when you are done.

or

1. Go to General Settings > Pair and sync > Pair other device and press START.
2. V800 starts searching for your heart rate sensor.
3. Once the heart rate sensor is found, the device ID Polar H7 xxxxxxxxx is displayed.
4. Press START, Pairing is displayed.
5. Pairing completed is displayed when you are done.

When using a H7 heart rate sensor, V800 may detect your heart rate via GymLink transmission before you have paired it. Make sure you have paired your heart rate sensor before starting training. GymLink transmission is optimized to be used in swimming, therefore your heart rate is shown in gray in other sport profiles if you haven’t paired your heart rate sensor via Bluetooth®.

PAIR A STRIDE, SPEED OR CADENCE SENSOR WITH V800

Before pairing a stride sensor, cadence sensor or speed sensor, make sure they have been correctly installed. For more information on installing the sensors see their user manuals.

There are two ways to pair a sensor with your V800:
1. Press START in time view to enter pre-training mode.

2. V800 starts searching for your sensor.
   - Stride sensor: Touch your stride sensor with V800, and wait for it to be found.
   - Cadence sensor: Rotate the crank a few times to activate the sensor. The flashing red light in the sensor indicates that the sensor is activated.
   - Speed sensor: Rotate the wheel a few times to activate the sensor. The flashing red light in the sensor indicates that the sensor is activated.

3. The device ID Pair Polar RUN/CAD/SPD xxxxxxxxx is displayed. Choose Yes.
4. Pairing completed is shown when you are done.

or

1. Go to General Settings > Pair and sync > Pair other device and press START.
2. V800 starts searching for your sensor.
3. Once the sensor is found, the device ID Polar RUN/CAD/SPD xxxxxxxxx is displayed.
4. Press START, Pairing is displayed.
5. Pairing completed is displayed when you are done.

For more information on pairing specific sensors, "Sensors" on page 114

**PAIR POLAR BALANCE SCALE WITH V800**

There are two ways to pair a Polar Balance scale with your V800:

1. Step on the scale. The display shows your weight.
2. After a beep sound, the Bluetooth icon on the scale display starts flashing, which means that the connection is now on. The scale is ready to be paired with your V800.
3. Press and hold the BACK button for 2 seconds on your V800 and wait until the display indicates the pairing is complete.

or

1. Go to General Settings > Pair and sync > Pair other device and press START.
2. V800 starts searching for your scale.
3. Step on the scale. The display shows your weight.
4. Once the scale is found, the device ID Polar scale xxxxxxxxx is displayed on your V800.
5. Press START, Pairing is displayed.
6. Pairing completed is shown when you are done.

⚠️ The scale can be paired with 7 different Polar devices. When the number of paired devices exceeds 7, the first pairing will be removed and replaced.
PAIR A MOBILE DEVICE WITH V800

Before pairing a mobile device, create a Polar account if you do not already have one, and download Flow app from the App Store or Google Play. Make sure you have also downloaded and installed FlowSync software onto your computer from flow.polar.com/start, and registered your V800 in the Flow web service.

Before trying to pair, make sure your mobile device has Bluetooth turned on, and airplane mode/flight mode is not turned on.

To pair a mobile device:

1. On your mobile device, open Flow app and sign in with your Polar account.
2. Wait for the Connect product view to appear on your mobile device (Searching for Polar V800) is displayed.
3. In V800 time mode, press and hold BACK.
4. Connecting to device is displayed, followed by Connecting to app.
5. Accept the Bluetooth pairing request on your mobile device and type in the pin code shown on your V800.
6. Pairing completed is displayed when you are done.

or

1. On your mobile device, open Flow app and sign in with your Polar account.
2. Wait for the Connect product view to appear on your mobile device (Waiting for V800) is displayed.
3. On V800, go to Settings > General settings > Pair and sync > Pair and sync mobile device and press START.
4. Press START, Connecting to device is displayed, followed by Connecting to app.
5. Accept the Bluetooth pairing request on your mobile device and type in the pin code shown on your V800.
6. Pairing completed is displayed when you are done.

DELETE A PAIRING

To delete a pairing with a sensor or mobile device:

1. Go to Settings > General settings > Pair and sync > Paired devices and press START.
2. Choose the device you want to remove from the list and press START.
3. Delete pairing? is displayed, choose Yes and press START.
4. Pairing deleted is displayed when you are done.
SYNCING

You can transfer data from your V800 via the USB cable with FlowSync software or wirelessly via Bluetooth Smart® with the Polar Flow app. To be able sync data between your V800 and the Flow web service and app, you need to have a Polar account and FlowSync software. Go to flow.polar.com/start, and create your Polar account in the Polar Flow web service and download and install FlowSync software onto your PC. Download Flow app onto your mobile from the App Store or Google Play.

Remember to sync and keep your data up-to-date between your V800, the web service and the mobile app wherever you are.

SYNC WITH FLOW APP

Before syncing make sure:

- You have a Polar account and Flow app
- You have registered your V800 in the Flow web service and synced data via FlowSync software at least once.
- Your mobile device has Bluetooth turned on, and airplane mode/flight mode is not turned on.
- You have paired your V800 with your mobile. For more information, see "Pairing" on page 38

There are two ways to sync your data:

1. Sign into Flow app and press and hold the BACK button on your V800.
2. Connecting to device is displayed, followed by Connecting to app.
3. Syncing completed is displayed when you are done.

or

1. Sign into Flow app and go to Settings > General settings > Pair and sync mobile device and press the START button on your V800.
2. Connecting to device is displayed, followed by Connecting to app.
3. Syncing completed is displayed when you are done.

When you sync your V800 with the Flow app, your training and activity data are also synced automatically via an internet connection to the Flow web service.

For support and more information about using Polar Flow app, go to www.polar.com/en/support/Flow_app
SYNC WITH FLOW WEB SERVICE VIA FLOWSYNC

To sync data with the Flow web service you need FlowSync software. Go to flow.polar.com/start, and download and install it before trying to sync.

1. Plug the USB cable into your computer and snap the connector onto your V800. Make sure FlowSync software is running.
2. The FlowSync window opens on your computer, and the syncing starts.
3. Completed is displayed when you are done.

Every time you plug in your V800 to your computer, the Polar FlowSync software will transfer your data to the Polar Flow web service and sync any settings you may have changed. If the syncing does not automatically start, start FlowSync from the desktop icon (Windows) or from the applications folder (Mac OS X). Every time a firmware update is available, FlowSync will notify you, and request you to install it.

If you change settings in the Flow web service while your V800 is plugged into your computer, press the synchronize button on FlowSync to transfer to the settings to your V800.

For support and more information about using the Flow web service, go to www.polar.com/en/support/flow

For support and more information about using FlowSync software, go to www.polar.com/en/support/FlowSync
# SETTINGs

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## SPORT PROFILE SETTINGS

Adjust the sport profile settings to best suit your training needs. In V800 you can edit certain sport profiles settings in **Settings > Sport profiles**. You can, for example, set the GPS on or off in different sports.
A wider range of customization options is available in the Flow web service. For more information, see “Sport Profiles” on page 106.

There are seven sport profiles shown in the pre-training mode by default. In the Flow web service you can add new sports to your list, and sync them to your V800. You can have a maximum of 20 sports on your V800 at a time. The number of sport profiles in the Flow web service is not limited.

By default, in the Sport profiles you'll find:

- Running
- Cycling
- Swimming
- Other outdoor
- Other indoor
- Triathlon
- Free multisport

If you have edited your sport profiles in the Flow web service before your first training session, and synced them to your V800, the sport profile list will contain the edited sport profiles.

**SETTINGS**

To view or modify sport profile settings, go to **Settings > Sport profiles** and choose the profile you want to edit. You can also access sport profile settings from pre-training mode by pressing and holding LIGHT. In sport profiles, that include multiple sports (e.g. triathlon and biathlon) the settings for each sport can be modified. For example, in triathlon you can modify the settings for swimming, cycling and running.

- **Training sounds**: Choose Off, Soft, Loud or Very loud.
- **Vibration feedback**: Choose On or Off. When set on, V800 vibrates, for example, when you start or stop a training session, GPS signal is found or you reach a training target.
- **Heart rate settings**: Heart rate view: Choose Beats per minute (bpm), % of maximum or % of Hr reserve. Check HR zone limits: Check the limits for each heart rate zone. HR visible to other device: Choose On or Off. If you choose On, other compatible devices (e.g. gym equipment) can detect your heart rate.
- **Bike power settings**: Choose Power view, Power, rolling average, Set FTP value or Check power zone limits. Set how you want to view your power, how frequently data points of your power are recorded, set your FTP value or view your power zone limits.

Bike power settings are visible only if Kéo Power has been paired.
- **GPS recording**: Choose Off, High accuracy, Medium accuracy or Power save, long session.

When using power save mode or medium accuracy GPS, location-based automatic lap, automatic pause and route guidance cannot be used.

When using power save mode in cycling your current speed is not shown.

- **Sport specific tap sensitivity**: Choose Off, Light tap, Normal tap, Strong tap or Very strong tap. Set how hard you have to tap the display when using tap gestures.
- **Stride sensor**: Choose Calibration or Choose sensor for speed. In Calibration, choose Automatic or Manual. In Choose sensor for speed, set the source for speed data: Stride sensor or GPS. For more information on Stride sensor calibration, "Polar Stride Sensor Bluetooth® Smart" on page 114

Stride sensor is visible only if a stride sensor has been paired.

- **Calibrate altitude**: Set the correct altitude. It is recommended to always manually calibrate altitude when you know your current altitude.

Altitude calibration is only visible when accessing sport profile settings from pre-training mode.

- **Speed View**: Choose km/h (kilometers per hour) or min/km (minutes per kilometer). If you have chosen imperial units, choose mph (miles per hour) or min/mi (minutes per mile).
- **Automatic pause**: Choose On or Off. If you set the automatic pause On, your session is automatically paused when you stop moving.

GPS recording must be set to high accuracy to use automatic pause.

- **Automatic lap**: Choose Off, Lap distance, Lap duration or Location-based. If you choose Lap distance, set the distance after which each lap is taken. If you choose Lap duration, set the duration after each lap is taken. If you choose Location-based, a lap will always be taken at the starting point of your session.

GPS recording must be set to high accuracy to use location-based automatic lap. Location-based automatic lap is activated if the GPS fix is ready when starting a training session (and location-based automatic lap is set on in sport profile settings and GPS is set to High Accuracy). POI's added later are NOT taken into account (regarding automatic lap). There can be several POI's during one session but only one location triggers the automatic lap (that point is the starting point), and you need to pass outside the 10 meter range of starting point and return into it to get the automatic lap saved.
Please note that in a number of indoor sports, group sports and team sports profiles the **HR visible to other devices** setting is enabled by default. This means that compatible devices using Bluetooth Smart wireless technology, e.g. gym equipment, can detect your heart rate. You can check which sport profiles have Bluetooth broadcasting enabled by default from the Polar Sport profiles list. You can enable or disable Bluetooth broadcasting from sport profile settings.

### PHYSICAL SETTINGS

To view and edit your physical settings, go to **Settings > Physical settings**. It is important that you are precise with the physical settings, especially when setting your weight, height, date of birth and sex, as they have an impact on the accuracy of the measuring values, such as the heart rate zone limits and calorie expenditure.

In **Physical settings** you'll find:

- **Weight**
- **Height**
- **Date of birth**
- **Sex**
- **Training background**
- **Maximum heart rate**
- **Resting heart rate**
- **VO2\text{max}**

#### WEIGHT

Set your weight in kilograms (kg) or pounds (lbs).

#### HEIGHT

Set your height in centimeters (metric) or in feet and inches (imperial).

#### DATE OF BIRTH

Set your birthday. The order in which the date settings are depends on which time and date format you have chosen (24h: day - month - year / 12h: month - day - year).

#### SEX

Select **Male** or **Female**.
TRAINING BACKGROUND

Training background is an assessment of your long-term physical activity level. Select the alternative that best describes the overall amount and intensity of your physical activity during the past three months.

- **Occasional (0-1h/week):** You do not participate regularly in programmed recreational sport or heavy physical activity, e.g. you walk only for pleasure or exercise hard enough to cause heavy breathing or perspiration only occasionally.
- **Regular (1-3h/week):** You participate regularly in recreational sports, e.g. you run 5-10 km or 3-6 miles per week or spend 1-3 hours per week in comparable physical activity, or your work requires modest physical activity.
- **Frequent (3-5h/week):** You participate at least 3 times a week in heavy physical exercise, e.g. you run 20-50 km/12-31 miles per week or spend 3-5 hours per week in comparable physical activity.
- **Heavy (5-8h/week):** You participate in heavy physical exercise at least 5 times a week, and you may sometimes take part in mass sports events.
- **Semi-pro (8-12h/week):** You participate in heavy physical exercise almost daily, and you exercise to improve performance for competitive purposes.
- **Pro (>12h/week):** You are an endurance athlete. You participate in heavy physical exercise to improve your performance for competitive purposes.

MAXIMUM HEART RATE

Set your maximum heart rate, if you know your current maximum heart rate value. Your age-predicted maximum heart rate value (220-age) is displayed as a default setting when you set this value for the first time.

HR$_{\text{max}}$ is used to estimate energy expenditure. HR$_{\text{max}}$ is the highest number of heartbeats per minute during maximum physical exertion. The most accurate method for determining your individual HR$_{\text{max}}$ is to perform a maximal exercise stress test in a laboratory. HR$_{\text{max}}$ is also crucial when determining training intensity. It is individual and depends on age and hereditary factors.

RESTING HEART RATE

Set your resting heart rate.

A person's resting heart rate (HR$_{\text{rest}}$) is the lowest number of heart beats per minute (bpm) when fully relaxed and without distractions. Age, fitness level, genetics, health status and gender affect HR$_{\text{rest}}$. HR$_{\text{rest}}$ is decreased as the result of cardiovascular conditioning. A normal value for an adult is 60-80 bpm, but for top athletes it can even be below 40 bpm.
**VO\textsubscript{2MAX}**

Set your VO\textsubscript{2max}.

A clear link exists between maximal oxygen consumption (VO\textsubscript{2max}) of the body and cardiorespiratory fitness because oxygen delivery to tissues is dependent on lung and heart function. VO\textsubscript{2max} (maximal oxygen uptake, maximal aerobic power) is the maximal rate at which oxygen can be used by the body during maximal exercise; it is related directly to the maximal capacity of the heart to deliver blood to the muscles. VO\textsubscript{2max} can be measured or predicted by fitness tests (e.g. maximal exercise tests, submaximal exercise tests, Polar Fitness Test). VO\textsubscript{2max} is a good index of cardiorespiratory fitness and a good predictor of performance capability in endurance events such as distance running, cycling, cross-country skiing, and swimming.

VO\textsubscript{2max} can be expressed either as milliliters per minute (ml/min = ml min\textsuperscript{-1}) or this value can be divided by the person's body weight in kilograms (ml/kg/min = ml kg\textsuperscript{-1} min\textsuperscript{-1}).

**GENERAL SETTINGS**

To view and edit your general settings, go to *Settings > General settings*

In General settings you'll find:

- Pair and sync
- Flight mode
- Button sounds
- Button lock
- Time mode tap sensitivity
- Units
- Language
- I wear my product on
- Training view color
- About your product

**PAIR AND SYNC**

- **Pair other device**: Pair heart rate sensors, running sensors, cycling sensors or mobile devices with your V800.
- **Paired devices**: View all the devices you have paired with your V800. These can include heart rate sensors, running sensors, cycling sensors and mobile devices.
- **Sync Data**: Sync data with Flow app. Sync data becomes visible after you have paired your V800 with a mobile device.
FLIGHT MODE

Choose On or Off

Flight mode cuts off all wireless communication from the device. You can still use it to collect activity, but you cannot use it in training sessions with a heart rate sensor nor sync your data to the Polar Flow mobile app because Bluetooth® Smart is disabled.

BUTTON SOUNDS

Set the button sounds On or Off.

Please note that this selection does not modify training sounds. Training sounds are modified in sport profile settings. For more information, see "Sport Profile Settings" on page 43

BUTTON LOCK

Choose Manual lock or Automatic lock. In Manual lock you can lock the buttons by manually from the Quick menu. In Automatic Lock the button lock automatically goes on after 60 seconds.

The tap function can be used when button lock is on.

TIME MODE TAP SENSITIVITY

Choose Off, Light tap, Normal tap, Strong tap or Very strong tap. Set how hard you have to tap the display when using tap gestures.

UNITS

Choose metric (kg, cm, °C) or imperial (lb, ft, °F). Set the units used to measure weight, height, distance, speed and temperature.

LANGUAGE

By default, V800 only comes in English. Other languages can added in the Flow web service. To add another language, go to polar.com/flow and sign in. Click your name/profile photo in the upper right corner, choose Products, and then V800 Settings. Choose the language you want from the list, and sync with your V800. The languages you can choose are: Dansk, Deutsch, English, Español, Français, Italiano, 日本語, Nederlands, Norsk, Português, 简体中文, Suomi or Svenska.
I WEAR MY PRODUCT ON

Choose Left hand or Right hand.

TRAINING VIEW COLOR

Choose Dark or Light. Change the display color of your training view. When Light is chosen, the training view has a light background with dark numbers and letters. When Dark is chosen, the training view has a dark background with light numbers and letters.

ABOUT YOUR PRODUCT

Check the device ID of your V800, as well as the firmware version and HW model.

WATCH SETTINGS

To view and edit your watch settings, go to Settings > Watch settings

In Watch settings you'll find:

- Alarm
- Time
- Date
- Week's starting day
- Watch face

ALARM

Set alarm repetition: Off, Once, Monday to Friday or Every day. If you choose Once, Monday to Friday or Every day, also set the time for the alarm.

ℹ️ When the alarm is set on, a clock icon is displayed in the upper right corner in the time view.

TIME

Set the time format: 24 h or 12 h. Then set the time of day.

ℹ️ When syncing with the Flow app and web service, the time of day is automatically updated from the service.
DATE

Set the date. Also set the Date format, you can choose mm/dd/yyyy, dd/mm/yyyy, yyyy/mm/dd, dd-mm-yyyy, yyyy-mm-dd, dd.mm.yyyy or yyyy.mm.dd.

When syncing with the Flow app and web service, the date is automatically updated from the service.

WEEK’S STARTING DAY

Choose the starting day of each week. Choose Monday, Saturday or Sunday.

When syncing with the Flow app and web service, the week’s starting day is automatically updated from the service.

WATCH FACE

Choose the watch face: Date and time, Your name and time, Analog or Big.

QUICK MENU

Certain settings can be modified with a shortcut button. You can enter the Quick menu by pressing and holding LIGHT in time view or training view. Quick menu will contain different settings depending on which view you enter it from.

TIME VIEW

In time view, press and hold LIGHT to enter Quick menu. In the time view Quick menu you can:

- Lock buttons: Press START to lock buttons. To unlock, press and hold LIGHT.
- Alarm: Set Off, Once, Monday to Friday or Every day. If you choose Once, Monday to Friday or Every day, also set the time for the alarm.
- Flight mode: Set On or Off.

TRAINING VIEW

In training view, press and hold LIGHT to enter Quick menu. In the training view Quick menu you can:

- Lock buttons: Press START to lock buttons. To unlock, press and hold LIGHT.

Please note that tap gestures can be performed when the buttons are locked.
- **Set backlight**: Set On or Off.
- **Sport specific tap sensitivity**: Choose Off, Light tap, Normal tap, Strong tap or Very strong tap. Set how hard you have to tap the display when using tap gestures in the sport profile you are currently using.
- **Search sensor**: Search for a heart rate sensor, running or cycling sensor.
- **Stride sensor**: Choose Calibration or Choose sensor for speed. In Calibration, choose Automatic or Manual. In Choose sensor for speed, set the source for speed data: Stride sensor or GPS.
- **Calibrate altitude**: Set the correct altitude. It is recommended to always manually calibrate altitude when you know your current altitude.
- **Countdown timer**: Set the countdown timer on. The countdown timer is shown in its own training view when set on.
- **Interval timer**: Create time and/or distance based interval timers to precisely time work and recovery phases in your interval training sessions.
- **Current location info**: This selection is only available if GPS is set on for the sport profile.
- By selecting **Set location guide on**, **Set target point** is displayed. Choose **Starting point (default)**. Location guide is used by the Back to start feature, that guides to your starting point or a POI.

You can change the target point by returning to the **Quick menu**, and choosing **Change target point**.

When **Location guide** is set on, **Save new POI** is added to the **Quick menu**.

- Press START when **Save new POI** is displayed to save your current location as a point of interest.

**FIRMWARE UPDATE**

The firmware of your V800 can be updated. Any time a new firmware version is available, FlowSync will notify you when connecting V800 to your computer with the USB cable. The firmware updates are downloaded via the USB cable and FlowSync software. Flow app will also notify you when new firmware is available.

Firmware updates are performed to improve the functionality of your V800. To make sure your V800 always works at its best, we recommend that you update the firmware every time a new version available. Updates can include improvements to existing features, completely new features or bug fixes, for example.

**HOW TO UPDATE FIRMWARE**

To update the firmware of your V800, you must have:
- A Flow web service account
- Installed FlowSync software
- Registered your V800 in the Flow web service

Stay connected by registering your V800 and using FlowSync software. Go to flow.polar.com/start, and create your Polar account in the Polar Flow web service and download and install FlowSync software onto your PC.

To update the firmware:

1. Snap the custom USB connector onto your V800, and plug the other end of the cable into your PC.
2. FlowSync starts syncing your data.
3. After syncing, you are asked to update the firmware.
4. Choose Yes. New firmware is installed (this may take some time), and V800 reboots.

**Before updating the firmware, the most important data from your V800 is synced to the Flow web service. Therefore you will not lose important data when updating.**

**RESET V800**

Like any electronic device, V800 is recommended to be switched off every now and then. If you experience problems with your V800, try resetting it. Reset your V800 by pressing and holding the UP, DOWN, BACK and LIGHT buttons simultaneously for five seconds until the Polar animation is shown on the display. This is called a soft reset, and it will not erase your data.
POLAR FLOW WEB SERVICE AND APP

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POLAR FLOW APP

Polar Flow app allows you to see an instant visual interpretation of your training data offline straight after your session. It lets you easily access your training targets and view test results. Flow app is the easiest way to sync your training data from your V800 with the Flow web service.

With Flow app you'll see:

- Route view on a map
- Training Load and recovery time
- Training Benefit
- Start time and duration of your session
- Average and maximum speed/pace, distance, running index
- Average and maximum heart rate, cumulative heart rate zones
- Calories and fat burn % of calories
- Maximum altitude, ascent and descent
- Lap details
- Average and maximum cadence (running and cycling)

To start using the Flow app, download it from the App Store or Google Play onto your mobile. For support and more information about using Polar Flow app, go to www.polar.com/en/support/Flow_app

To see your training data in Flow app, you must sync your V800 with it after your session. For information on syncing V800 with Flow app, see "Syncing" on page 41

POLAR FLOW WEB SERVICE

The Polar Flow web service allows you to plan and analyze every detail of your training and learn more about your performance. Set up and customize V800 to perfectly fit your training needs by adding sports and tailoring settings and training views. Follow and visually analyze your progress, create training targets, and add them and your favorite routes to your favorites.

With the Flow web service you can:

- Analyze all of your training details with visual graphs and a route view
- Compare specific data with others like laps or speed vs. heart rate
- Analyze sports specific data in multisport training
- See how your training load affects your cumulative recovery status
- See long-term progress by following the trends and details which matter to you the most
- Follow your progress with sports specific weekly or monthly reports
- Share highlights with your followers
- Relive your and other users' sessions afterward

To start using the Flow web service, go to [flow.polar.com/start](http://flow.polar.com/start), and create your Polar account if you do not already have one. Download and install FlowSync software from the same place to allow you to sync data between V800 and Flow web service. Also get the Flow app for your mobile for instant analysis and data sync to the web service.

**Feed**

In **Feed** you can see what you've been up to lately, plus you can see your friends' activities and comments.

**Explore**

In **Explore** you can discover training sessions and routes by browsing the map, add them to your favorites and sync them to your V800. See public training sessions that other users have shared, and relive your own or other people's routes and see where the highlights happened.

**Diary**

In **Diary** you can see your scheduled training sessions, as well as review past results. Information shown includes: training plans in day, week or month view, individual sessions, tests and weekly summaries.

**Progress**

In **Progress** you can follow your development with reports. Reports are a handy way to follow your progress in training over longer periods. In week, month and year reports you can choose the sport for the report. In custom period, you can choose both the period and the sport. Choose the time period and sport for report from the drop down lists, and press the wheel icon to choose what data you want to view in the report graph.

For support and more information about using the Flow web service, go to, [www.polar.com/en/support/flow](http://www.polar.com/en/support/flow)

**TRAINING TARGETS**

Create detailed training targets in the Flow web service and sync them to your V800 via Flowsync software or Flow app. During training you can easily follow the guidance on your device.
Quick Target: Fill in one value. Choose a duration, distance or calorie target.

Race Pace Target: Challenge yourself and try to hit your target time for a set distance – for example run 10 km in 45 minutes – or aim at keeping a steady pace. Fill in two of the values and you get the third one automatically.

Phased Target: You can split your training into phases and create a different target duration or distance and intensity for each of them. This one is for e.g. creating an interval training session, and adding proper warmup and cool down phases to it.

Favorites: Create a target, and add it to Favorites to easily access it every time want to perform it again.

Remember to sync your training targets to your V800 from the Flow web service via FlowSync or Flow App. If you do not sync them, they are only visible in your Flow web service Diary or Favorites list.

CREATE A TRAINING TARGET

1. Go to Diary, and click Add > Training target.
2. In the Add training target view, choose Quick, Race Pace, Phased or Favorite.

Quick Target

1. Choose Quick
2. Choose Sport, enter Target name (required), Date (optional) and Time (optional) and any Notes (optional) you want to add.
3. Fill in one of the following values: duration, distance or calories. You can only fill in one of the values.
4. Click Save to add the target to your Diary, or the favorites icon ⭐ to add it to your Favorites.

Race Pace Target

1. Choose Race Pace
2. Choose Sport, enter Target name (required), Date (optional) and Time (optional) and any Notes (optional) you want to add.
3. Fill in two of the following values: duration, distance or Race Pace.
4. Click Save to add the target to your Diary, or the favorites icon ⭐ to add it to your Favorites.

Phased target

1. Choose Phased
2. Choose Sport, enter Target name (required), Date (optional) and Time (optional) and any Notes (optional) you want to add.
3. Add phases to your target. Choose distance or duration for each phase, manual or automatic next phase start and the intensity.
4. Click Save to add the target to your Diary, or the favorites icon ⭐ to add it to your Favorites.
**Favorites**

If you have created a target, and added it to your favorites you can use it as a scheduled target.

1. Choose **Favorites**. Your training target favorites are shown.
2. Click the favorite you want to use a template for your target.
3. Choose **Sport**, enter **Target name** (required), **Date** (optional) and **Time** (optional) and any **Notes** (optional) you want to add.
4. You can edit the target if you wish, or leave it as it is.
5. Click **Update changes** to save changes made to the favorite. Click **Add to diary** to add the target to your **Diary** without updating the favorite.

After syncing your training targets to your V800, you can find:

- Scheduled training targets in **Diary** (current week and the next 4 weeks)
- Training targets listed as favorites in **Favorites**

When starting your session, access your target from **Diary** or **Favorites**.

For information on starting a training target session, see "Start a Training Session" on page 60

**FAVORITES**

In **Favorites**, you can store and manage your favorite routes and training targets in the Flow web service. Your V800 can have a maximum of 20 favorites at a time. The number of favorites in the Flow web service is not limited. If you have over 20 favorites in the Flow web service, the first 20 in the list are transferred to your V800 when syncing.

You can change the order of your favorites by dragging and dropping them. Choose the favorite you want to move and drag it into the place you want to put it in the list.

**Add a Route to Favorites**

Add a route recorded by you or another user to your favorites, and after syncing it your V800 you can follow it with route guidance.

1. When viewing a route click the favorites icon ★ in the lower right corner of the map.
2. Name the route, and choose **Save**.
3. The route is added to your favorites
Add a Training Target to Favorites:

1. Create a training target.
2. Click the favorites icon ⭐ in the lower right corner of the page.
3. The target is added to your favorites

or

1. Choose an existing target from your Diary.
2. Click the favorites icon ⭐ in the lower right corner of the page.
3. The target is added to your favorites.

Edit a Favorite

1. Click the favorites icon ⭐ in the upper right corner next to your name. All your favorite routes and training targets are shown.
2. Choose the favorite you want to edit:
   
   - **Routes**: The name of a route can be changed, but the route on the map cannot be edited.
   - **Training targets**: Change the name of the target, or choose edit in the lower right corner to modify the target.

Remove a favorite

Click the delete icon in upper right corner of the route or training target to remove it from the favorites list.
TRAINING

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WEAR HEART RATE SENSOR

Use our heart rate sensors when training to get the most out of Polar's unique Smart Coaching features. Heart rate data gives you an insight into your physical condition and how your body responds to training. This will help you fine-tune your training plans and reach your peak performance.

A heart rate monitor gives you a physiological window, through accurate heart rate measurement, into your body's response to the moment-to-moment changes in your physical activity. Although there are many subjective clues as to how your body is doing during exercise (perceived exertion, breathing rate, physical sensations), none is as reliable as measuring heart rate. It is objective and is affected by both internal and external factors - meaning you will have a dependable measure of your physical state.
PAIR HEART RATE SENSOR

1. Wear your heart rate sensor, and press START in time view to enter pre-training mode.
2. **To pair, touch your sensor with V800 is displayed**, touch your heart rate sensor with V800, then wait for it to be found.
3. The device ID **Pair Polar H7 xxxxxxxxx** is displayed. Choose **Yes**.
4. **Pairing completed** is shown when you are done.

You can also pair a new sensor in **Settings > General settings > Pair and sync > Pair other device**. For more information on pairing, see "Pairing" on page 38

⚠️ When using a H7 heart rate sensor, V800 may detect your heart rate via GymLink transmission before you have paired it. Make sure you have paired your heart rate sensor before starting training. GymLink transmission is optimized to be used in swimming, therefore your heart rate is shown in gray in other sport profiles if you haven't paired your heart rate sensor via Bluetooth®.

1. Moisten the electrode areas of the strap.
2. Attach the connector to the strap.
3. Adjust the strap length to fit tightly but comfortably. Tie the strap around your chest, just below the chest muscles, and attach the hook to the other end of the strap.
4. Check that the moist electrode areas are firmly against your skin and that the Polar logo of the connector is in a central and upright position.

⚠️ Detach the connector from the strap, and rinse the strap under running water after every training session. Sweat and moisture may keep the heart rate sensor activated, so also remember to wipe it dry.

START A TRAINING SESSION

Wear the heart rate sensor, and make sure you have paired it and any other compatible sensors with your V800.
1. Begin by pressing the START button to enter pre-training mode.

Choose the sport you want use

2. Choose the sport profile you want to use.

To change the sport profile settings before starting your session (in pre-training mode), press and hold LIGHT to enter the **Quick Menu**. To return to the pre-training mode, press BACK.

Wait for GPS and optional sensors to be found

3. If you have activated the GPS function and/or paired an optional sensor*, V800 will automatically start searching for the signals.

Stay in the pre-training mode until V800 has found the sensor signals and your heart rate. OK is shown next to the sensor icon when it is found.

4. Stand still and hold the position until V800 has found the satellite signals. The percentage value shown next to the GPS icon indicates when the GPS is ready. When it reaches 100 %, Ok is displayed, and you are ready to go.

V800 uses SiRFInstantFix™ satellite prediction technology to acquire a fast satellite fix. It accurately predicts satellite positions for up to three days allowing you to find satellite signals in 5 -10 seconds.

To catch the GPS satellite signals, go outdoors and away from tall buildings and trees. Wear V800 with the face upwards on your wrist. Keep it in a horizontal position in front of you and away from your chest. Keep your arm stationary and raised above the level of your chest during the search.
For best GPS performance, wear V800 on your wrist with the display facing up. Due to the location of the GPS antenna on the V800, it is not recommended to wear it with the display on the underside of your wrist. When wearing it on the handlebars of a bike, make sure the display is facing up.

5. When V800 has found all the signals, press START. **Recording started** is displayed and you can start training.

During training recording you can change the training view with UP/DOWN. To change settings without stopping the training recording, press and hold LIGHT to enter **Quick menu**. For more information, "Quick Menu" on page 51.

*Optional sensors include Polar Stride Sensor Bluetooth® Smart, Polar Cadence Sensor Bluetooth® Smart and Polar Speed Sensor Bluetooth® Smart.

**START A MULTISPORT TRAINING SESSION**

Before starting a multisport training session, make sure that you have set the sport profile settings for each of the sports that you are going to use for the training session. For more information, see "Sport Profiles" on page 106.

1. Begin by pressing the START button.

2. Choose **Triathlon, Free multisport** or any other multisport profile (can be added in the Flow web service).

3. Once V800 has found all the signals, press START. **Recording started** is displayed and you can start training.

4. To change the sport press **BACK** to go to transition mode.

5. Choose your next sport, and press **START** (your transition time is shown) and continue training.
For more information on multisport, see "Multisport" on page 109

START A SESSION WITH TRAINING TARGET

1. Begin by going to Diary or Favorites.

2. In Diary, choose the day the target is scheduled and press START, and then choose the target from the list and press START. Any notes you have added to the target are displayed.

   or

   In Favorites, choose the target from the list and press START. Any notes you have added to the target are displayed.

3. Press START to enter the pre-training mode, and choose the sport profile you want to use.

4. When V800 has found all the signals, press START. Recording started is displayed and you can start training.

For more information on training targets, "Training Targets" on page 55

START A SESSION WITH ROUTE GUIDANCE

1. Begin by going to Favorites.

2. Choose the route from the list and press START.

3. Press START to enter the pre-training mode, and choose the sport profile you want to use.

4. When V800 has found all the signals, press START. Recording started is displayed and you can start training.

For more information on route guidance, see "Route Guidance " on page 75

START A SESSION WITH RACE PACE

1. Begin by going to Favorites.

2. Choose Race pace, and press START. Set the target distance km/m and target time.

3. Press START to enter the pre-training mode, and choose the sport profile you want to use.
4. When V800 has found all the signals, press START. **Recording started** is displayed and you can start training.

For more information on Race Pace, see "Race Pace" on page 76

**START A SESSION WITH INTERVAL TIMER**

You can set one repeating or two alternating time and/or distance based timers for guiding your work and recovery phases in interval training.

1. Begin by going to Timers > **Interval timer**. Choose **Set timer(s)** to create new timers.
2. Choose **Time-based** or **Distance-based**:
   - **Time-based**: Define minutes and seconds for the timer and press START.
   - **Distance-based**: Set the distance for the timer and press START.
3. **Set another timer?** is shown. To set another timer, choose **Yes**.
4. When completed, choose **Start X.XX km / XX:XX** and press START to enter the pre-training mode, and then choose the sport profile you want to use.
5. When V800 has found all the signals, press START. **Recording started** is displayed and you can start training.

**FUNCTIONS DURING TRAINING**

**SWITCH SPORT DURING A MULTISPORT SESSION**

Press BACK, and choose the sport you want to switch to. Confirm your selection with **START**.

**TAKE A LAP**

Press START to record a lap. You can also record a lap by tapping the display if you have set it in the sport profile settings in the Flow web service. Laps can also be taken automatically. In sport profile settings, set **Automatic lap** to **Lap distance**, **Lap duration** or **Location-based**. If you choose **Lap distance**, set the distance after which each lap is taken. If you choose **Lap duration**, set the duration after each lap is taken. If you choose **Location-based**, a lap will always be taken at the starting point of your session.

**LOCK A HEART RATE ZONE**

Press and hold START to lock the heart rate zone you are currently in. To lock/unlock the zone, press and hold START. If your heart rate goes outside the locked zone, you will be notified with audio and vibration feedback.
CHANGE SPORT SPECIFIC TAP SENSITIVITY

Press and hold LIGHT. Quick menu is displayed. Choose Sport specific tap sensitivity from the list and choose Light tap, Normal tap, Strong tap, Very strong tap or Off to customize the sensitivity to best suit your current sport.

CHANGE PHASE DURING A PHASED SESSION

Press and hold LIGHT. Quick menu is displayed. Choose Start next phase from the list, and press START (if manual phase change is chosen when creating the target). If automatic is chosen, the phase will change automatically when you have finished a phase.

VIEW QUICK MENU

Press and hold LIGHT. Quick menu is displayed. You can change certain settings without pausing your training session. For more information, "Quick Menu" on page 51

SET CONSTANT BACKLIGHT ON

Press and hold LIGHT. Quick menu is displayed. Choose Set backlight on from the list, and press START. When enabled, the backlight stays on continuously when pressing LIGHT. Please note that using this function shortens battery life.

SET LOCATION GUIDE ON

The location guide is used by the Back to start feature, that guides to your starting point or a POI. Press and hold LIGHT. Quick menu is displayed. Choose Set location guide on, Set target point is displayed. Choose Starting point (default). You can change the target point by returning to the Quick menu, and choosing Change target point. At least one POI must be saved during your session to be able to change the target point. For more information, "Back to start" on page 75

SAVE POI (POINT OF INTEREST)

Press and hold LIGHT. Quick menu is displayed. Choose Set location guide on from the list, and press START. Choose Save new POI from list, and press START to save your current location as a POI.

COUNTDOWN TIMER

Press and hold LIGHT. Quick menu is displayed. Choose Countdown timer from the list, and press START. Choose Set Timer, and set the countdown time, and press START to confirm.
INTERVAL TIMER

Press and hold LIGHT. Quick menu is displayed. Choose Interval timer from the list, and press START. Choose Start X.XX km / XX:XX to use a previously set timer or create a new timer in Set Timer:

1. Choose Time-based or Distance-based:
   - Time-based: Define minutes and seconds for the timer and press START.
   - Distance-based: Set the distance for the timer and press START.
2. Set another timer? is shown. To set another timer, choose Yes.
3. When completed, choose Start X.XX km / XX:XX and press START.

AUTOMATIC PAUSE

When you start or stop moving, your V800 automatically starts and stops training recording. GPS recording must set to high accuracy or, you must have a Polar Speed Sensor Bluetooth® Smart for automatic pause to work. Set automatic pause on or off in Quick menu or in sport profile settings. For more information, “Sport Profile Settings” on page 43

HEARTTOUCH

Bring V800 near your heart rate sensor to activate the HeartTouch function. You can set the function to: off, activate backlight, show previous lap or show time of day. The HeartTouch function only works with a H7 heart rate sensor. You can edit the HeartTouch functions in the sport profile settings in the Flow web service. For more information, "Sport Profiles” on page 106

PAUSE/STOP A TRAINING SESSION

1. To pause a training session, press the BACK button. Recording paused is displayed. To continue your training session, press START.

2. To stop a training session, press and hold the BACK button for three seconds when paused until Recording ended is displayed.
If you stop your session after pausing, the time elapsed after pausing is not included in the total training time.

**DELETE A TRAINING SESSION**

To delete a training session, go to Diary on your V800, and select a date. Scroll down to Delete session, and choose the session you want to delete.

You can only delete sessions from your V800 Diary that have not been synced to Flow app or the Flow web service. If you want to delete a file that you have already synced, it can be deleted in the Flow web service.

**AFTER TRAINING**

Get instant analysis and in-depth insights into your training and recovery with V800, Flow app and Flow web service.

**TRAINING SUMMARY ON YOUR V800**

After each training session, you'll get an instant training summary of your session. After viewing your training summary, you'll also see how your session affected recovery status.

The information shown in the summary depends on the sport profile and sensors used. Information shown includes:

- Training Load and the needed recovery time for the session
- Training Benefit
- Start time and duration of your session
- Average and maximum speed/pace, distance
- Average and maximum heart rate and cumulative heart rate zones
- Altitude compensated calories and fat burn % of calories,
- Running Index
- Average and maximum cadence (running and cycling)
- Average and maximum stride length (running)
- Maximum altitude, ascent and descent
- Lap details

To view your training summary later, go to Diary and choose the day, and then choose the summary of the session you want to view.
SINGLE SPORT SUMMARY

Single sport summary includes detailed information of your session.

<table>
<thead>
<tr>
<th>Summary</th>
<th>Start time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Duration</td>
</tr>
<tr>
<td></td>
<td>Distance (visible if the GPS function is on or Polar Stride Sensor Bluetooth® Smart/ Polar Speed Sensor Bluetooth® Smart is in use)</td>
</tr>
<tr>
<td></td>
<td>Race time</td>
</tr>
<tr>
<td></td>
<td>Average speed in race</td>
</tr>
<tr>
<td></td>
<td>Only visible if race pace used</td>
</tr>
<tr>
<td></td>
<td>Training Load</td>
</tr>
<tr>
<td></td>
<td>Recovery need from this session</td>
</tr>
<tr>
<td></td>
<td>Training Benefit</td>
</tr>
<tr>
<td></td>
<td>Press START for more details.</td>
</tr>
<tr>
<td></td>
<td>Visible if heart rate sensor in use, not visible in multisport sessions</td>
</tr>
<tr>
<td></td>
<td>Heart rate zones</td>
</tr>
<tr>
<td></td>
<td>Visible if heart rate sensor in use</td>
</tr>
<tr>
<td>Summary</td>
<td>Average heart rate</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Avg heart rate</td>
<td>137 (76%)</td>
</tr>
<tr>
<td>Max heart rate</td>
<td>168 (93%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th>Maximum heart rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calories</td>
<td>682 kcal</td>
</tr>
<tr>
<td>Fat burn % of calories</td>
<td>35%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th>Average speed/pace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average pace</td>
<td>5:00 min/km</td>
</tr>
<tr>
<td>Maximum pace</td>
<td>3:47 min/km</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th>Average cadence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average cadence</td>
<td>80</td>
</tr>
<tr>
<td>Maximum cadence</td>
<td>110</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th>Running Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Running Index</td>
<td>50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th>Visible if running type sport and GPS or Polar Stride Sensor Bluetooth® Smart in use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visible if Polar Stride Sensor Bluetooth® Smart in use</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th>Average stride length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average stride length</td>
<td>125 cm</td>
</tr>
<tr>
<td>Maximum stride length</td>
<td>140 cm</td>
</tr>
</tbody>
</table>

| Visible if Polar Stride Sensor Bluetooth® Smart in use | |
| Visible if Polar Stride Sensor Bluetooth® Smart in use | |
### Average cadence

**Maximum cadence**

Visible if Polar Cadence Sensor Bluetooth® Smart in use

### Maximum altitude

**Ascent**

**Descent**

Visible if altitude in use

### Laps

**Best lap**

**Average lap**

Press START for more details.

### Automatic laps

**Best lap**

**Average lap**

Press START for more details.

## MULTISPORT SUMMARY

Multisport summary includes an overall summary of the session as well as sport specific summaries.
**Multisport Summary** gives you the general information on the whole training session.

**Duration**

**Distance**

Press START to view more details on the whole session. To view detailed sport specific information, browse with UP/DOWN and press START in the summary of the sport.

**POLAR FLOW APP**

Sync your V800 with Flow app to analyze your data at a glance after each session. The Flow app allows you to see a quick overview of your training data offline.

For information, "Polar Flow App" on page 54

**POLAR FLOW WEB SERVICE**

The Polar Flow web service allows you to analyze every detail of your training and learn more about your performance. Follow your progress and also share your best sessions with others.

For more information, "Polar Flow Web Service" on page 54

**STATUS**

To view your status information, go to Status. In Status you'll find:

**Recovery status**

Shows how recovered you are, and when you will reach the next recovery level.
For more information, "Recovery Status " on page 78
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The V800 has built-in GPS that provides accurate speed and distance measurement for a range of outdoor sports, and allows you to see your route on map in the Flow app and web service after your session.

V800 includes the following GPS features:

- **Distance**: Gives you accurate distance during and after your session.
- **Speed/Pace**: Accurate speed/pace information during and after your session.
- **Race Pace**: Helps you to keep a steady pace and achieve your target time for a set distance.
- **Running index**: In V800, Running Index is based on heart rate, speed and altitude data measured during the run. It gives information about your performance level, both aerobic fitness and running economy. In V800, this feature can also recognize if you're running uphill or downhill.
- **Back to start**: Directs you to your starting point in the shortest distance possible, as well as shows the distance to your starting point. Now you can check out more adventurous routes and explore them safely, knowing that you're only a touch of a button away from seeing the direction to where you started.
- **Route guidance**: Follows your previously recorded routes and shared routes from Polar Flow.
- **Power save, long session mode and Medium accuracy GPS**: Allows you to save the battery life of your V800 during long training sessions. In power save mode your GPS data is stored at intervals of 60 seconds, and in medium accuracy mode it is stored at intervals of 30 seconds. A longer interval gives you more recording time. When using power save mode or medium accuracy GPS location-based automatic lap, automatic pause and route guidance cannot be used. In addition, Running Index cannot be used unless you have a stride sensor, and Race Pace cannot be used unless you have a stride sensor or speed sensor.
- **Incline**: See your incline during your session. Uphill/downhill steepness is shown in percentages and grade. Only available in high accuracy GPS mode.

ℹ️ When using power save mode, the GPS data is not as accurate as in high accuracy mode. Power save mode is only recommended to be used in long sessions lasting over 10 hours.

ℹ️ When using power save mode in cycling your current speed is not shown.
When training with either a Polar Stride Sensor Bluetooth® Smart or Polar Speed Sensor Bluetooth® Smart with GPS set on, speed and distance information is collected from the stride sensor or speed sensor, not the GPS. However, route information is collected from the GPS.

For best GPS performance, wear V800 on your wrist with the display facing up. Due to the location of the GPS antenna on the V800, it is not recommended to wear it with the display on the underside of your wrist. When wearing it on the handlebars of a bike, make sure the display is facing up.

BACK TO START

The back to start feature guides you back to the starting point of your session or to a saved POI.

To use the back to start feature:

1. Press and hold LIGHT during a training session. Quick menu is displayed.
2. Choose Set location guide on, Set target point is displayed.
3. Choose Starting point (default).

You can change the target point by returning to the Quick menu, and choosing Change target point.

At least one POI must be saved during your session to be able to change the target point.

To return to your starting point:

- Browse to the Back to start view.
- Keep V800 in a horizontal position in front of you.
- Keep moving in order for V800 to determine which direction you are going. An arrow will point in the direction of your starting point.
- To get back to the starting point, always turn in the direction of the arrow.
- The V800 also shows the bearing and the direct distance (beeline) between you and the starting point.

When in unfamiliar surroundings, always keep a map at hand in case the V800 loses the satellite signal or the battery runs out.

ROUTE GUIDANCE

The route guidance feature guides you along routes that you have recorded in previous sessions or routes that other Flow web service users have recorded and shared. The route can be started from the start point or the end point. You can also navigate to the nearest point of the route.

You must first go to a point on your route in order for the guidance to start. You can choose to go to the route start point, route end point or nearest route point (original direction or reverse direction). When
the route has been reached, your V800 guides you all the way through the route. Guidance on the display keeps you on the right track during your session. If you go off route, V800 will let you know and alert you with sound and vibration.

**Guidance on the Display**

- The circle shows your location (If the circle is empty you are off the route)
- The arrow shows the correct direction
- More of the route is shown as you as proceed
- Distance left

**Adding a Route to V800**

To add a route to your V800, you must save it as a favorite in the Flow web service **Explore** view or in the analysis view of your training session, and sync it to your V800.

For more information on favorites, see "Favorites" on page 57

For information on starting a session with route guidance, see "Start a Training Session" on page 60

**RACE PACE**

Race pace feature helps you to keep a steady pace and achieve your target time for a set distance. Define a target time for the distance, for example, 45 minutes for a 10 kilometer run. During the training session the target pace/speed is compared with training information. You can follow up on how far behind or ahead you are, compared to your pre-set target. You can also check what is the required steady pace/speed in order to meet your set target. Race pace can be set on V800, or you can also set a race pace target in the Flow web service.

For information on starting a session with Race Pace, see "Start a Training Session" on page 60

**BAROMETER**

The barometer features include:

- Altitude, ascent and descent
- Temperature during training (can be viewed on the display)

V800 measures altitude with an atmospheric air pressure sensor and converts the measured air pressure into an altitude reading. This is the most accurate way to measure altitude and altitude changes (ascent / descent) after calibration. Ascended and descended are shown in meters/feet.
To make sure that the altitude remains accurate, it needs to be calibrated whenever a reliable reference, such as a peak or a topographic map, is available or when at sea level. Calibration can also be set to automatic. This is especially useful if a training session is always started in the same environment. Pressure variations due to weather conditions, or indoor air-conditioning, may affect altitude readings.

The temperature shown is the temperature of your V800. When wearing V800 on your wrist, your body heat affects the temperature reading. To get an accurate air temperature reading, take V800 off your wrist for 15-20 minutes.

Altitude is automatically calibrated with GPS, and the altitude will be shown in gray until it is calibrated. To get the most accurate altitude readings, it is recommended to always manually calibrate altitude when you know your current altitude. Manual calibration can be done in the pre-training view or in the training view quick menu. For more information, see "Quick Menu" on page 51

**SMART COACHING**

Whether it’s assessing your day-to-day fitness levels, creating individual training plans, working out at the right intensity or receiving instant feedback, Smart Coaching offers a choice of unique, easy-to-use features, personalized to your needs and designed for maximum enjoyment and motivation when training.

V800 includes the following Smart Coaching features:

- Training Load
- Recovery status based on Training Load and 24/7 activity
- Training Benefit
- Jump Test
- Fitness Test
- Orthostatic Test
- Running Index
- Heart rate zones
- Smart calories

**TRAINING LOAD**

Training load is textual feedback on the strenuousness of a single training session. Training load calculation is based on the consumption of critical energy sources (carbohydrates and proteins) during exercise. It makes the loads of different types of training sessions comparable with each other. To enable a more accurate comparison between sessions, we have converted your training load into an approximate recovery need estimation.
Training load takes into consideration different factors which affect your training load and estimated recovery need. These include $HR_{sit}$, $HR_{max}$, $VO_2_{max}$, sex, age, height, weight and your training background. Your aerobic and anaerobic thresholds (can be set in the Flow web service), heart rate during training and the duration of your session also affect the calculation. In addition by applying sport-specific factor, the strenuousness of the sport performed is reflected in your in training load and recovery need.

![Summary of Training Load](image)

After each training session in the training summary, you will receive a description of your training load and the estimated time needed to recover from the session.

<table>
<thead>
<tr>
<th>Training Load</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme</td>
<td>&gt; 49 h</td>
</tr>
<tr>
<td>Very demanding</td>
<td>25 – 48 h</td>
</tr>
<tr>
<td>Demanding</td>
<td>13 – 24 h</td>
</tr>
<tr>
<td>Reasonable</td>
<td>7 – 12 h</td>
</tr>
<tr>
<td>Mild</td>
<td>0 – 6 h</td>
</tr>
</tbody>
</table>

Check the estimated recovery needs for the different Training Loads from this chart.

See a more detailed visual interpretation of your training load and recovery in the Flow web service.

**RECOVERY STATUS**

The recovery status feature keeps track of your cumulative load – that is, intensity, volume and frequency of your training and activity – taking your training background into account. Your recovery status combines your training load with the data of the activities you do every day. It estimates your recovery status and how long it takes for you to recover. It is a tool that helps you avoid over and under training and adjust your training plans, together with other tools such as the orthostatic test.

Your recovery status is based on your cumulative training load, daily activity and resting from the past 8 days. The most recent training sessions and activity are weighted more than earlier ones, therefore they have the biggest effect on your recovery status. Your activity outside training sessions is tracked with an internal 3D accelerometer that records your wrist movements. It analyzes the frequency, intensity and irregularity of your movements together with your physical information, allowing you to see how active you are outside your training sessions. By combining your daily activity with your training load you get a true picture of your required recovery status. Continuous monitoring of your recovery status will help
you recognize personal limits, avoid over or under training, and adjust training intensity and duration according to your daily and weekly targets.

To get the most accurate recovery status information, wear a heart rate sensor when training.

<table>
<thead>
<tr>
<th>Recovery status</th>
<th>Very strained</th>
<th>Strained</th>
<th>Balanced</th>
<th>Undertrained</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Very strained&quot; means that you have been training hard lately and your cumulative load is very high. Over time this will improve your fitness and performance. You just need to give yourself enough time to fully recover before your next heavy training period or competition.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Strained&quot; shows that your training load has cumulated and become high. This may also mean that you're not fully recovered from your past training and activity. Improving fitness and performance requires strenuous training every now and then, but also time to recover well.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Balanced&quot; tells you that your recent training and the time you need to recover from it are in balance. When you devote enough time for recovery, you can make sure you get the most out of your training.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Undertrained&quot; means that you have recently been training less than normally. Perhaps you need some extra time to recover due to an illness, stress from everyday life or change of focus in your training plan. Please remember, though, that if you cut down your training load for weeks in a row without careful planning, some of the training benefits you have already gained may diminish.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
View Your Recovery Status

- Tap the display in time view

or

- Go to Status > Recovery status in the main menu

View Your Daily Calories

See how many calories you have burnt through training, activity and BMR (Basal metabolic rate: the minimum metabolic activity required to maintain life).

- Tap the display twice in time view

or

- Go to Today's activity in the main menu, and press START in the Activity view.

A more detailed view of your daily activity including activity intensity, active time, inactivity, steps/distance, calories, and sleep time/index is available in the Flow app and Flow web service.

ACTIVITY TRACKING

V800 tracks your activity with an internal 3D accelerometer that records your wrist movements. It analyzes the frequency, intensity and irregularity of your movements together with your physical information, allowing you to see how active you are outside your training sessions.

You'll get a daily activity goal and guidance on how to reach your goal. V800 also reminds you to get up and move when you've been inactive for too long. View the data on your V800 or Polar Flow App.

The daily activity goal you get from Polar V800 is based on the global physical activity recommendations for moderate and vigorous intensity activities, as well as research findings on the negative health effects that too much sitting may have on you. The daily activity goal V800 gives you may in fact be slightly
more than most recommendations state. In addition to one hour of moderate intensity activity, also the low intensity activity plays an important role in fulfilling V800's daily activity goal requirements.

Your daily activity goal is set based on your physical settings and your typical day. If you are an office worker, for instance, you would be expected to reach about four hours of low intensity activity during an ordinary day. For people who stand and walk a lot during their working hours, V800 has higher expectations.

**ACTIVITY DATA**

V800 gradually fills up an activity bar to indicate your progress towards your daily goal. You can view the activity bar in Today's activity and, optionally, in time view (change the watch face by pressing and holding UP).

In Today's activity you can see how active your day has been so far and get guidance on how to reach you goal.

- **Activity**
  - **Active time**: Active time tells you the cumulative time of body movements that are good for your body and health.
  - **Calories**: Shows how many calories you have burned through training, activity and BMR (Basal metabolic rate: the minimum metabolic activity required to maintain life).
  - **Steps**: Steps you have taken so far. The amount and type of body movements are registered and turned into an estimation of steps. A basic recommendation is to aim for 10 000 steps or more a day.

Press START in the Activity view to see how your calories are split between training, activity and BMR.

- **To go**: Your V800 gives you options for reaching your daily activity goal. It tells you how much longer you need to be active if you choose low, medium or high intensity activities. You have one goal, but a number of ways to achieve it. The daily activity goal can be reached at low, medium or high intensities. In the V800, 'up' means low intensity, 'walking' means medium intensity, and 'jogging' means high intensity. You can find more examples for low, medium and high intensity activities at the Polar Flow web service and choose own way of reaching your goal.

**Inactivity alert**

V800 spots if you're being inactive for too long during your day.

If you've been still for 55 minutes, It's time to move is shown. Stand up and find your own way to be active. If you're not active in the next five minutes you'll get an inactivity stamp.
You can set the alert on or off in Settings > General Settings > Inactivity alert.

Both the Polar Flow app and the Polar Flow web service will show you how many inactivity alerts you have received. This way you can check back on your daily routine and make changes toward a more active life.

**Sleep information in the Flow web service and Flow app**

If you wear your V800 at night it will track your sleep. No sleep mode activation is needed. V800 will automatically detect from your wrist movements that you're sleeping.

Your sleep time is the longest continuous rest time that takes place within 24 hours starting from 18:00/6pm to next day's 18:00/6pm. While less than 1 hour breaks to your sleep do not stop sleep calculation, they are not calculated into sleep time. Breaks longer than 1 hour discontinue sleep time calculation.

Sleep time, and its quality (restful / restless) is shown at Flow web service and Flow app after V800 is synced. The periods when you sleep peacefully and don't move a lot are calculated as restful sleep. Periods when you move and change your position are calculated as restless sleep. Instead of simply summing up all the immobile periods, the algorithm gives more weight to long than short immobile periods. The percentage of restful sleep compares the time you slept restfully with the total sleeping time. Restful sleep is highly individual and should be interpreted together with sleep time.

Knowing the amount of restful and restless sleep gives you a look into how you sleep at night and if it's affected by any changes in your daily life. This may help you in finding ways to improve your sleep and feel well rested during the day.

**Activity data in Flow App**

With the Polar Flow mobile app you can follow and analyze your activity data on the go and have your data synced wirelessly from your V800 to the Polar Flow service.

**TRAINING BENEFIT**

The Training Benefit feature helps you better understand the effects of your training. This feature requires the use of the heart rate sensor. After each training session you get textual feedback on your training session providing that you have trained at least a total of 10 minutes in the heart rate zones.

**HOW DOES IT WORK?**

Training Benefit feedback is based on heart rate zones. It reads into how much time you spend and how many calories you burn in each zone.
Motivating feedback that's delivered straight to you immediately after exercise is something we can all benefit from. So if you want to know the effect of different training sessions, this feature will tell you exactly what you need to know. You get a quick overview after each session, and for more detailed feedback, you can either check your training file or you can get further in-depth analysis at polar.com/flow. The descriptions of different training benefit options are listed in the table below.

<table>
<thead>
<tr>
<th>Feedback</th>
<th>Training benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum training+</td>
<td>What a session! You improved your sprint speed and the nervous system of your muscles, which make you more efficient. This session also increased your resistance to fatigue.</td>
</tr>
<tr>
<td>Maximum training</td>
<td>What a session! You improved your sprint speed and the nervous system of your muscles, which make you more efficient.</td>
</tr>
<tr>
<td>Maximum &amp; Tempo training</td>
<td>What a session! You improved your speed and efficiency. This session also significantly developed your aerobic fitness and your ability to sustain high intensity effort for longer.</td>
</tr>
<tr>
<td>Tempo &amp; Maximum training</td>
<td>What a session! You significantly improved your aerobic fitness and your ability to sustain high intensity effort for longer. This session also developed your speed and efficiency.</td>
</tr>
<tr>
<td>Tempo training+</td>
<td>Great pace in a long session! You improved your aerobic fitness, speed, and ability to sustain high intensity effort for longer. This session also increased your resistance to fatigue.</td>
</tr>
<tr>
<td>Tempo training</td>
<td>Great pace! You improved your aerobic fitness, speed, and ability to sustain high intensity effort for longer.</td>
</tr>
<tr>
<td>Tempo &amp; Steady state training</td>
<td>Good pace! You improved your ability to sustain high intensity effort for longer. This session also developed your aerobic fitness and the endurance of your muscles.</td>
</tr>
<tr>
<td>Steady state &amp; Tempo training</td>
<td>Good pace! You improved your aerobic fitness and the endurance of your muscles. This session also developed your ability to sustain high intensity effort for longer.</td>
</tr>
<tr>
<td>Steady state training+</td>
<td>Excellent! This long session improved the endurance of your muscles and your aerobic fitness. It also increased your resistance to fatigue.</td>
</tr>
<tr>
<td>Steady state training</td>
<td>Excellent! You improved the endurance of your muscles and your aerobic fitness.</td>
</tr>
<tr>
<td>Steady state &amp; Basic training, long</td>
<td>Excellent! This long session improved the endurance of your muscles and your aerobic fitness. It also developed your basic endurance and your</td>
</tr>
<tr>
<td>Feedback</td>
<td>Training benefit</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Steady state &amp; Basic training</td>
<td>Excellent! You improved the endurance of your muscles and your aerobic fitness. This session also developed your basic endurance and your body’s ability to burn fat during exercise.</td>
</tr>
<tr>
<td>Basic &amp; Steady state training, long</td>
<td>Great! This long session improved your basic endurance and your body's ability to burn fat during exercise. It also developed the endurance of your muscles and your aerobic fitness.</td>
</tr>
<tr>
<td>Basic &amp; Steady state training</td>
<td>Great! You improved your basic endurance and your body's ability to burn fat during exercise. This session also developed the endurance of your muscles and your aerobic fitness.</td>
</tr>
<tr>
<td>Basic training, long</td>
<td>Great! This long, low intensity session improved your basic endurance and your body's ability to burn fat during exercise.</td>
</tr>
<tr>
<td>Basic training</td>
<td>Well done! This low intensity session improved your basic endurance and your body's ability to burn fat during exercise.</td>
</tr>
<tr>
<td>Recovery training</td>
<td>Very nice session for your recovery. Light exercise like this allows your body to adapt to your training.</td>
</tr>
</tbody>
</table>

**JUMP TEST**

There are three kinds of jump tests to choose from: squat, countermovement and continuous. The squat and countermovement tests measure your explosive strength, but in the countermovement jump test your muscles and tendons also do a pre-stretch that lets you use elastic energy, usually allowing you to jump higher. The continuous jump test measures your anaerobic power. It is especially useful for those who do sports that require anaerobic power, in other words maximal effort for short periods.

To do the Jump test, go to **Tests > Jump Test**. To perform the test you need a Polar Stride Sensor Bluetooth® Smart. For more information, see "Polar Stride Sensor Bluetooth® Smart" on page 114.

⚠️ If you haven’t paired a Polar Stride Sensor Bluetooth® Smart with V800, **You need a Polar stride sensor** is displayed when trying to enter **Jump Test**.

Before performing any of the jump tests, make sure you have warmed up properly, especially your leg muscles. When performing any of the tests, always use the same correct jumping technique to maximize the comparability and reliability of the results.

Your latest test result is shown in **Tests > Jump test > Latest result**. Only your most recently performed test result is shown. You can view your previous results in the V800 diary. For a visual
analysis of your Jump test results, go to the Flow web service and select the test from your Diary to view details from it.

**SQUAT JUMP**

The squat jump test measures explosive strength. This test is performed by starting with your knees bent in a 90 degree angle, and jumping vertically as high as possible from that position. Hands should be held on the hips to avoid the effect of arm swinging to the test. Knees and ankles should be extended at take-off, and they should be in a similar extended position when landing on the ball of the foot.

In the test you perform three attempts of the squat jump and the best attempt is the test result. Give yourself a short recovery period between attempts to ensure maximal effort on every attempt.

**Performing the Squat Jump**

Wear the Polar Bluetooth® Smart Stride Sensor, and choose Jump test > Squat, and press START. Searching for stride sensor is displayed. Squat jumps Start now! is shown when you can start the test.

1. Stand with your hands on your hips and knees bent in a 90 degree angle. Stay still for a few seconds.
2. Jump vertically without any countermovement.
3. Land with both feet with your legs straight and ankles extended.
4. Perform three attempts of the squat jump. Give yourself a short recovery period between attempts to ensure maximal effort on every attempt.

It is important not to perform any kind of countermovement during the squat jump test.

<table>
<thead>
<tr>
<th>Jumps</th>
<th>During the test you will see the number jumps performed (1/3, 2/3 or 3/3), and the height of your last jump e.g. 53 cm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/3</td>
<td></td>
</tr>
<tr>
<td>53 cm</td>
<td></td>
</tr>
</tbody>
</table>
Test Results

After the test you will see the heights of all three of your jumps

COUNTERMOVEMENT JUMP

The countermovement jump test measures explosive strength. This test is performed by starting in an upright standing position and squatting down to a 90 degree leg bend position before immediately jumping vertically as high as possible. Hands should be held on the hips to avoid the effect of arm swinging to the test. Knees and ankles should be extended at take-off, and they should be in a similar extended position when landing on the ball of the foot.

In the test you perform three attempts of the countermovement jump and the best attempt is the test result. Give yourself a short recovery period between attempts to ensure maximal effort on every attempt.

Performing the Countermovement Jump

Wear the Polar Bluetooth® Smart Stride Sensor, and choose Jump test > Countermovement, and press START. Searching for stride sensor is displayed. Countermovement Start now! is shown when you can start the test.

1. Stand upright with your hands on your hips.
2. Squat rapidly to about a 90 degree knee angle, and immediately jump vertically.
3. Land with both feet with your legs straight and ankles extended.
4. Perform three attempts of the countermovement jump. Give yourself a short recovery period between attempts to ensure maximal effort on every attempt.

During the test you will see the number jumps performed (1/3, 2/3 or 3/3), and the height of your last jump e.g. 59 cm.
Test Results

After the test you will see the heights of all three of your jumps.

CONTINUOUS JUMP

The continuous jump test measures your anaerobic power. This test is especially useful for those who do sports that require anaerobic power, in other words maximal effort for short periods. The aim of the continuous jump test is to perform the highest number of jumps with maximum height in the set time period.

The continuous jump test is performed by squatting down until the knees are bent in a 90 degree angle, and then rapidly jumping vertically as high as possible, and landing with both feet at the same time, bending the knees, and repeating the vertical jumping movement until the set time period is over. The test should be started with maximal effort, jumping as high as possible as rapidly as possible. As the test proceeds you will naturally become fatigued but keep maximal effort throughout the test. In the Flow web service you can analyze your test jump by jump, and see how your jump height decreased during the test.

Performing the Continuous Jump

Before performing the continuous jump test, set the duration of test. Choose [Jump test > Set duration of cont. test](#) The duration can be set to 15 seconds, 30 seconds, 60 seconds or [Set other duration](#). If you choose [Set other duration](#), you can set the duration anywhere from 5 seconds to 300 seconds.

Wear the Polar Bluetooth® Smart Stride Sensor, and choose [Jump test > Continuous](#), and press START. [Searching for stride sensor](#) is displayed. [Continuous jumps Start now!](#) is shown when you can start the test.

1. Stand upright with your hands on your hips.
2. Squat until your knees are in a 90 degree leg bend position, and immediately jump vertically.
3. Land with both feet with your legs straight and ankles extended.
4. Repeat the jump movement continuously until the test is over (you will be notified with audio and vibration when the test is over).
During the test you will see the number of jumps performed, and the time remaining.

### Test Results

<table>
<thead>
<tr>
<th>Jumps</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>26 cm</td>
</tr>
<tr>
<td></td>
<td>30 s</td>
</tr>
</tbody>
</table>

After the test you will see the number of jumps performed, the average height of your jumps and the average power per kilogram/pound.

---

**FITNESS TEST**

The Polar Fitness Test is an easy, safe and quick way to estimate your aerobic (cardiovascular) fitness at rest. The result, Polar OwnIndex, is comparable to maximal oxygen uptake ($\text{VO}_{2\text{max}}$), which is commonly used to evaluate aerobic fitness. Your long-term training background, heart rate, heart rate variability at rest, gender, age, height, and body weight all influence OwnIndex. The Polar Fitness Test is developed for use by healthy adults.

Aerobic fitness relates to how well your cardiovascular system works to transport oxygen to your body. The better your aerobic fitness, the stronger and more efficient your heart is. Good aerobic fitness has many health benefits. For example, it helps in decreasing the risk of high blood pressure and your risk of cardiovascular diseases and stroke. If you want to improve your aerobic fitness it takes, on average, six weeks of regular training to see a noticeable change in your OwnIndex. Less fit individuals see progress even more rapidly. The better your aerobic fitness, the smaller the improvements in your OwnIndex.

Aerobic fitness is best improved by training types that use large muscle groups. Such activities include running, cycling, walking, rowing, swimming, skating, and cross-country skiing. To monitor your progress, start by measuring your OwnIndex a couple of times during the first two weeks in order to get a baseline value, and then repeat the test approximately once a month.

To make sure the test results are reliable, the following basic requirements apply:

- You can perform the test anywhere - at home, at the office, at a health club - provided the testing environment is peaceful. There should be no disturbing noises (e.g. television, radio, or telephone) and no other people talking to you.
- Always take the test in the same environment and at the same hour.
- Avoid eating a heavy meal or smoking 2-3 hours prior to testing.
• Avoid heavy physical exertion, alcohol, and pharmaceutical stimulants on the test day and the previous day.
• You should be relaxed and calm. Lie down and relax for 1-3 minutes before starting the test.

BEFORE THE TEST

Wear your heart rate sensor. For more information, see "Wear Heart Rate Sensor" on page 59.

Before starting the test, make sure your physical settings including training background are accurate in Settings > Physical settings.

PERFORMING THE TEST

To perform the fitness test, go to Tests > Fitness Test > Relax and start the test.

• Searching for heart rate is displayed. When heart rate is found, a heart rate graph, your current heart rate and Lie down & relax is shown on the display. Stay relaxed and limit body movements and communication with other people.
• You can interrupt the test in any phase by pressing BACK. Test canceled is displayed.

If V800 cannot receive your heart rate signal, the message Test failed is displayed. In which case, you should check that the heart rate sensor electrodes are wet and that the textile strap fits snugly.

TEST RESULTS

When the test is over, you hear two beeps along with a description of your fitness test result and your estimated VO₂max is displayed.

Update to VO₂max to physical settings? is displayed.

• Select Yes to save the value to your Physical settings.
• Select No only if you know your recently measured VO₂max value, and if it differs more than one fitness level class from the result.

Your latest test result is shown in Tests > Fitness test > Latest result. Only your most recently performed test result is shown.

For a visual analysis of your Fitness test results, go to the Flow web service and select the test from your Diary to view details from it.
### Fitness Level Classes

#### Men

<table>
<thead>
<tr>
<th>Age / Years</th>
<th>Very low</th>
<th>Low</th>
<th>Fair</th>
<th>Moderate</th>
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#### Women

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</table>

The classification is based on a literature review of 62 studies where VO₂max was measured directly in healthy adult subjects in the USA, Canada and 7 European countries. Reference: Shvartz E, Reibold RC.
Aerobic fitness norms for males and females aged 6 to 75 years: a review. Aviat Space Environ Med; 61:3-11, 1990.

**ORTHOSTATIC TEST**

Orthostatic test is a generally used tool for monitoring the balance between training and recovery. It is based on the training-induced changes in the function of your autonomic nervous system. Orthostatic test results are affected by several external factors, such as mental stress, sleep, latent illness, environmental changes (temperature, altitude), and others. Long term follow-up helps you to optimize your training and prevent overtraining.

Orthostatic test is based on the measurement of heart rate and heart rate variability. Changes in heart rate and heart rate variability reflect the changes in autonomic regulation of the cardiovascular system. During the test HRrest, HRstand and HRpeak are measured. Heart rate and heart rate variability measured during orthostatic test are good indicators of disturbances in the autonomic nervous system, for example fatigue or overtraining. However, heart rate responses to fatigue and overtraining are always individual, and require longer term follow-up.

**BEFORE THE TEST**

When you perform the test for the first time, six baseline tests should be conducted over a period of two weeks to determine your personal baseline value. These baseline measurements should be taken during two typical basic training weeks, not during heavy training weeks. The baseline measurements should include tests taken both after training days and after recovery days.

After the baseline recordings, you should continue to perform the test 2-3 times a week. Test yourself weekly in the morning following both a recovery day and a heavy training day (or a series of heavy training days). An optional third test can be performed after a normal training day. The test may not provide reliable information during detraining or in a very irregular training period. If you take a break from exercise for 14 days or longer, you should consider resetting your long-term averages and perform the baseline tests again.

The test should always be taken in standardized/similar conditions in order to get the most reliable results. It is recommended that you take the test in the morning before breakfast. The following basic requirements apply:

- Wear the heart rate sensor.

- You should be relaxed and calm.

- You can be seated in a relaxed position or lying in bed. The position should always be the same.
when you do the test.

- The test can take place anywhere – at home, in the office, at a health club – as long as the test environment is peaceful. There should be no disturbing noises (for example, television, radio or telephone) or other people talking to you.

- Avoid eating, drinking and smoking 2-3 hours prior to the test.

- It is recommended to perform the test regularly and at the same time of day to get comparable test results, preferably in the morning after waking up.

**PERFORMING THE TEST**

Choose Tests > Orthostatic test > Relax and start the test. Searching for heart rate is displayed. When heart rate is found Lie down & relax is shown on the display.

- Do not move during this first part of the test, which lasts 3 minutes.
- After 3 minutes, the wrist unit will beep and Stand up is displayed. Stand up and remain standing still for 3 minutes.
- After 3 minutes, the wrist unit will beep again and the test is finished.
- You can interrupt the test in any phase by pressing BACK. Test canceled is displayed.

If V800 cannot receive your heart rate signal, the message Test failed is displayed. In which case, you should check that the heart rate sensor electrodes are wet and that the textile strap fits snugly.

**TEST RESULTS**

As a result you see your HRrest, HRstand and HRpeak values compared with the average of your previous results.

Your latest test result is shown in Tests > Orthostatic test > Latest result. Only your most recently performed test result is shown.

In the Flow web service you can follow your test results in the long-term. For a visual analysis of your Orthostatic test results, go to the Flow web service and select the test from your Diary to view details from it.

**RUNNING INDEX**

Running Index offers an easy way to monitor running performance changes. A running index value is an estimate of maximal aerobic running performance, which is influenced by aerobic fitness and running economy. By recording your Running Index over time, you can monitor progress. Improvement means
that running at a given pace requires less of an effort, or that your pace is faster at a given level of exertion.

In V800, Running Index takes the effect of uphill and downhill into account. At a given pace, running uphill is physiologically more stressful than running on a level surface, and running downhill is physiologically less stressful than running on a level surface.

To receive the most accurate information on your performance, make sure you have set your $HR_{\text{max}}$ and $HR_{\text{rest}}$ values.

Running Index is calculated during every training session when heart rate and the GPS function is on / Stride Sensor Bluetooth® Smart is in use, and when the following requirements apply:

- Sport profile used is a running type sport (Running, Road Running, Trail running etc.)
- Speed should be 6 km/h / 3,75 mi/h or faster and duration 12 minutes minimum
- Altitude data must be available (otherwise up- and downhill are not taken into account)
- Your heart rate must be above 40% of your HRR (heart rate reserve) value. HRR is the difference between maximum heart rate and resting heart rate.

- If you use a stride sensor, it must be calibrated. If you use GPS it must be set to High accuracy.

To receive the most accurate information on your performance, make sure you have set your $HR_{\text{max}}$ and $HR_{\text{rest}}$ values. Calculation begins when you start recording the session. During a session, you may stop twice at traffic lights, for example, without interrupting the calculation. After your session, V800 displays a Running Index value and stores the result in the training summary.

Compare your result to the table below.

**SHORT-TERM ANALYSIS**

**Men**

<table>
<thead>
<tr>
<th>Age / Years</th>
<th>Very low</th>
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There may be some daily variation in the Running Indexes. Many factors influence Running Index. The value you receive on a given day is affected by changes in running circumstances, for example different surface, wind or temperature, in addition to other factors.

**LONG-TERM ANALYSIS**

The single Running Index values form a trend that predicts your success in running certain distances.
The following chart estimates the duration that a runner can achieve in certain distances when performing maximally. Use your long-term Running Index average in the interpretation of the chart. The prediction is best for those Running Index values that have been received at speed and running circumstances similar to the target performance.

<table>
<thead>
<tr>
<th>Running Index</th>
<th>Cooper test (m)</th>
<th>5 km (h:mm:ss)</th>
<th>10 km (h:mm:ss)</th>
<th>21.098 km (h:mm:ss)</th>
<th>42.195 km (h:mm:ss)</th>
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HEART RATE ZONES

Polar heart rate zones introduce a new level of effectiveness in heart rate-based training. Training is divided into five heart rate zones based on percentages of maximum heart rate. With heart rate zones, you can easily select and monitor training intensities.

<table>
<thead>
<tr>
<th>Target zone</th>
<th>Intensity % of HRmax*, bpm</th>
<th>Example durations</th>
<th>Training effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAXIMUM</td>
<td>90–100% 171–190 bpm</td>
<td>less than 5 minutes</td>
<td>Benefits: Maximal or near maximal effort for breathing and muscles. Feels like: Very exhausting for breathing and muscles. Recommended for: Very experienced and fit athletes. Short intervals only, usually in final preparation for short events.</td>
</tr>
<tr>
<td>HARD</td>
<td>80–90% 152–172 bpm</td>
<td>2–10 minutes</td>
<td>Benefits: Increased ability to sustain high speed endurance. Feels like: Causes muscular fatigue and heavy breathing. Recommended for: Experienced athletes for year-round training, and for various durations. Becomes more important during pre competition season.</td>
</tr>
<tr>
<td>MODERATE</td>
<td>70–80% 133–152 bpm</td>
<td>10–40 minutes</td>
<td>Benefits: Enhances general training pace, makes moderate intensity efforts easier and improves efficiency.</td>
</tr>
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</tr>
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<tr>
<td>3</td>
<td>Feels like: Steady, controlled, fast breathing. Recommended for: Athletes training for events, or looking for performance gains.</td>
<td></td>
<td></td>
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<tr>
<td>LIGHT</td>
<td>Benefits: Improves general base fitness, improves recovery and boosts metabolism. Feels like: Comfortable and easy, low muscle and cardiovascular load. Recommended for: Everybody for long training sessions during base training periods and for recovery exercises during competition season.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VERY LIGHT</td>
<td>Benefits: Helps to warm up and cool down and assists recovery. Feels like: Very easy, little strain. Recommended for: For recovery and cool-down, throughout training season.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*HR_{max} = Maximum heart rate (220-age). Example: 30 years old, 220−30=190 bpm.

Training in heart rate zone 1 is done at a very low intensity. The main training principle is that performance improves when recovering after, and not only during training. Accelerate the recovery process with very light intensity training.
Training in heart rate zone 2 is for endurance training, an essential part of any training program. Training sessions in this zone are easy and aerobic. Long-duration training in this light zone results in effective energy expenditure. Progress will require persistence.

Aerobic power is enhanced in heart rate zone 3. The training intensity is higher than in zones 1 and 2, but still mainly aerobic. Training in zone 3 may, for example, consist of intervals followed by recovery. Training in this zone is especially effective for improving the efficiency of blood circulation in the heart and skeletal muscles.

If your goal is to compete at top potential, you will have to train in heart rate zones 4 and 5. In these zones, you exercise anaerobically in intervals of up to 10 minutes. The shorter the interval, the higher the intensity. Sufficient recovery between intervals is very important. The training pattern in zones 4 and 5 is designed to produce peak performance.

The Polar target heart rate zones can be personalized in the sport profile settings in the Flow web service by using a laboratory measured HR_{max} value, or by taking a field test to measure the value yourself. When training in a target heart rate zone, try to make use of the entire zone. The mid-zone is a good target, but keeping your heart rate at that exact level all the time is not necessary. Heart rate gradually adjusts to training intensity. For instance, when crossing from heart rate target zone 1 to 3, the circulatory system and heart rate will adjust in 3-5 minutes.

Heart rate responds to training intensity depending on factors such as fitness and recovery levels, as well as environmental factors. It is important to look out for subjective feelings of fatigue, and to adjust your training program accordingly.

**SMART CALORIES**

The most accurate calorie counter on the market calculates the number of calories burned. The energy expenditure calculation is based on:

- Body weight, height, age, gender
- Individual maximum heart rate (HR_{max})
- Heart rate during training
- Individual resting heart rate value (HR_{rest})
- Individual maximal oxygen uptake (VO_{2max})
- Altitude

For best possible Smart Calories information accuracy, please give V800 your measured VO_{2max} and HR_{max} values if you have them. If not, use the value given by Polar Fitness test.
SMART NOTIFICATIONS (IOS)

The smart notifications feature allows you to get alerts about incoming calls, messages and notifications from apps onto your Polar device. You'll get the same notifications on your Polar device that you get on your phone screen. The smart notifications feature is available for both iOS and Android.

SETTINGS

Your Polar device needs to be paired with Flow app to receive alerts and notifications, and you also need to have the correct settings on your Polar device and phone.

After updating the firmware of your Polar device, you need to pair it with Flow app again in order for the smart notifications settings to appear. If you do not pair them again, the setting will not become visible.

V800

Notifications are off by default. Set them on in Menu > Settings > General settings > Smart notifications.

- Choose On to receive notifications, and have the contents of the notifications shown the display.
- Choose On (no preview) if you don't want to see the contents of the notifications on the display. You'll just be informed that you've received a notification.
- Notif. do not disturb: If you want to disable notifications and call alerts for a certain period of time, set Do not disturb on. Then set the time period when Do not disturb is on (default 10 pm - 7 am). When Do not disturb is on, you will not receive any notifications or call alerts during the time period you have set.

PHONE

The notification settings on your phone determine what notifications you receive on your Polar device. To edit the notification settings on your iOS phone:

1. Go to Settings > Notification Center.
2. Make sure the apps that you would like to receive notifications from are listed under Include and have their notification style set to Banner or Alerts.

You will not receive notifications from apps listed under Do Not Include.

POLAR FLOW MOBILE APP

On the Polar Flow mobile app, the Smart Notifications feature is set off by default.
Set the Smart Notifications feature on/off in the mobile app as follows:

1. Open the Polar Flow mobile app.
2. Go to Devices.
3. Under Smart notifications choose On (no preview) or Off.
4. Sync your V800 with the mobile app by pressing and holding the BACK button of your V800.
5. Smart notifications on or Smart notifications off is shown on your V800 display.

⚠️ Whenever you change the notification settings on the Polar Flow mobile app, remember to sync your V800 with the mobile app.

USE

When getting an alert, your Polar device will discreetly notify you by vibrating. When receiving a call, you can choose to answer, silence or decline it (only with iOS 8). Silencing just silences your Polar device, it won't silence your phone. If a notification arrives during a call alert, it will not be shown.

During a training session you can receive calls, and get navigation directions (only with Google maps) if you have Flow app running on your phone. You will not receive any notifications (email, calendar, apps etc.) during training sessions.

Dismiss Notifications

Notifications can be dismissed manually or by timeout. Manually dismissing the notification also dismisses it from your phone screen, but timeout just removes it from your Polar device, and it will still be visible on your phone.

To dismiss notifications from the display:

- Manually: Press the BACK button
- Timeout: The notification will disappear after 30 seconds if you do not dismiss it manually

Do Not Disturb

If you want to disable notifications and call alerts for a certain period of time, set do not disturb on. When it is on, you will not receive any notifications or call alerts during the time period you have set.

Do not disturb is set on by default, and the time period is 10 pm – 7 am. You can change the time period from the General Settings on your Polar device.

When do not disturb is on, you'll see an icon (a crescent moon) in the upper left corner of the V800 display to indicate that you cannot receive notifications.
SMART NOTIFICATIONS (ANDROID)

The smart notifications feature allows you to get alerts about incoming calls, messages and notifications from apps onto your Polar device. You'll get the same notifications on your Polar device that you get on your phone screen. Please note that you can't receive any notifications during training sessions.

- Make sure you have Android version 5.0 or newer on your phone.
- Make sure you have the latest firmware on your V800.
- To use the Smart Notifications feature you need to have the Polar Flow mobile app for Android, and your Polar V800 needs to be paired with the app. For the Smart Notifications feature to work, Polar Flow app must be running on your phone.
- Please note that when the Smart Notifications feature is on, the battery of your Polar device and phone will run out faster because Bluetooth is continuously on.

We have verified the functionality with some of the most common phone models, like Samsung Galaxy S5, Samsung Galaxy S6, Nexus 5, LG G4, Sony Xperia Z3. There might be differences in the functionality with other phone models which support Android 5.0.

SETTINGS

Your Polar device needs to be paired with Flow app to receive alerts and notifications, and you also need to have the correct settings on your Polar device and phone.

After updating the firmware of your Polar device, you need to pair it with Flow app again in order for the smart notifications settings to appear. If you do not pair them again, the setting will not become visible.

Notifications are off by default. They can be set on/off on your V800 or the Polar Flow app. When making changes to the settings, we recommend you always make them on your V800.

V800

Set the Smart Notifications feature on/off on V800 as follows.

On your V800, go to **Menu > Settings > General settings > Smart notifications**.

- Choose On to receive notifications, and have the contents of the notifications shown the display.
- Choose On (no preview) if you don't want to see the contents of the notifications on the display. You'll just be informed that you've received a notification.

Flow App

Set the Smart Notifications feature on/off in the Polar Flow mobile app as follows.
1. Open the Polar Flow mobile app.
2. Sync your Polar V800 with the mobile app by pressing and holding the BACK button of your Polar V800.
3. Go to Devices.
4. Under Smart notifications choose On, On (no preview) or Off.

When you turn Smart notifications on, you will be guided to enable the notifications on your phone (i.e. give Polar Flow app an access to your phone notifications), if you haven't enabled them. Enable notifications? is shown. Tap Enable. Then choose Polar Flow and tap OK.

5. Sync your Polar V800 with the mobile app by pressing and holding the BACK button of your Polar V800.

Whenever you change the notification settings on the Polar Flow mobile app, remember to sync your V800 with the mobile app.

Phone

To be able to receive notifications from your phone on your Polar V800, you first need to enable notifications on the mobile applications from which you want to receive them. You can do this either via the mobile application's settings or via your Android phone's App notifications settings. See the user manual of your phone for further information on App notifications settings.

Then Polar Flow app has to have permission to read the notifications from your phone. You have to give Polar Flow app access to your phone notifications (i.e. enable notifications in the Polar Flow app). Polar Flow app guides you to give access when needed.

USE

When getting an alert, your Polar device will discreetly notify you by vibrating. A calendar event or message alert once, while incoming calls alert until you press the BACK button on your Polar V800, answer the phone, or after alerting for 30 seconds.

The caller's name is shown on the display if you have the caller on your mobile phonebook and the name only includes basic Latin characters and special characters of the following languages: French, Finnish, Swedish, German, Norwegian or Spanish.

Dismiss Notifications

Notifications can be dismissed manually or by timeout. Manually dismissing the notification also dismisses it from your phone screen, but timeout just removes it from your Polar device, and it will still be visible on your phone.
To dismiss notifications from the display:

- Manually: Press the BACK button
- Timeout: The notification will disappear after 30 seconds if you do not dismiss it manually

**Do Not Disturb**

If you want to disable notifications and call alerts for a certain period of time, set do not disturb on. When it is on, you will not receive any notifications or call alerts during the time period you have set.

Do not disturb is set on by default, and the time period is 10 pm – 7 am. You can change the time period from the General Settings on your Polar device.

When do not disturb is on, you'll see an icon (a crescent moon) in the upper left corner of the V800 display to indicate that you cannot receive notifications.

**Block apps**

In Polar Flow app you can block notifications from certain apps. As soon as you've received the first notification from an app to your V800, the app will be listed in Settings > Notifications > Block apps and you can block it if you wish.

**CADENCE FROM THE WRIST**

Cadence from the wrist gives you the option to get your running cadence without a separate stride sensor. Your cadence is measured with a built-in accelerometer from your wrist movements. The get this feature you need to have at least firmware version 1.7 on your V800. Please note that when using a stride sensor cadence will always be measured with it.

Cadence from the wrist is available in the following running type sports:

- Walking, Running, Jogging, Road running, Trail running, Treadmill running, Track and field running and Ultra running

It is also available in the following multisport profiles when doing the running leg:

- Triathlon, Duathlon, Off-road triathlon and Off-road duathlon

To see your cadence during a training session, add cadence to the training view of the sport profile you use when running. This can be done in the Flow web service Sport Profiles.
POLAR RUNNING PROGRAM

Polar Running program is a personalized program based on your fitness level, designed to make sure that you train right and avoid overreaching. It's intelligent, and adapts based on your development, and lets you know when it might be a good idea to cut back a little and when to step it up a notch. Each program is tailored for your event, taking your personal attributes, training background and preparation time into account. The program is free, and available in the Polar Flow web service at www.polar.com/flow.

Programs are available for 5k, 10k, half marathon and marathon events. Each program has three phases: Base building, Build-up and Tapering. These phases are designed to gradually develop your performance, and make sure you're ready on race day. Running training sessions are divided into five types: easy jog, medium run, long run, tempo run and interval. All sessions include warm-up, work, and cool-down phases for optimal results. In addition, you can choose to do strength, core, and mobility exercises to support your development. Each training week consists of two to five running sessions, and the total running training session duration per week varies from one to seven hours depending on your fitness level. The minimum duration for a program is 9 weeks, and the maximum is 20 months.

Learn more about the Polar Running Program in this in-depth guide. Or read more about how to get started with the Running Program.

CREATE A POLAR RUNNING PROGRAM

2. Choose Programs from the Tab.
3. Choose your event, name it, set the event date, and when you wish to start the program.
4. Fill in the physical activity level questions.*
5. Choose if you want to include supporting exercises in the program.
6. Read and fill in the physical activity readiness questionnaire.
7. Review your program, and adjust any settings if necessary.
8. When you're done, choose Start program.

*If four weeks of training history is available, these will be pre-filled.

START A RUNNING TARGET

Before starting a session, make sure you've synced your training session target to your device. The sessions are synced to your device as training targets, and you start them from your Diary. Follow guidance on your device throughout your session.

1. On your device, go to Diary.
2. Choose a day to view the scheduled target.
3. Choose the target, and then choose the sport profile.
4. Press START, and follow the guidance.

If you want to do a target scheduled for another day, you can – just choose a day from your Diary, and start the session scheduled for that day.

**FOLLOW YOUR PROGRESS**

Sync your training results from your device to the Flow web service via the USB cable or Flow app. Follow your progress from the **Programs** tab. You’ll see an overview of your current program, and how you’ve progressed.

**SPEED ZONES**

With the speed/pace zones you can easily monitor speed or pace during your session, and adjust your speed/pace to achieve the targeted training effect. The zones can be used to guide the efficiency of your training during sessions, and help you mix up your training with different training intensities for optimal effects.

**SPEED ZONES SETTINGS**

The speed zone settings can be adjusted in the Flow web service. They can be turned on or off in the sport profiles they are available in. There are five different zones, and zone limits can be manually adjusted or you can use the default ones. They are sport specific, allowing you to adjust the zones to best suit each sport. The zones are available in running sports (including team sports that involve running), cycling sports as well as rowing and canoeing.

**Default**

If you choose **Default**, you cannot change the limits. The default zones are an example of speed/pace zones for a person with a relatively high fitness level.

**Free**

If you choose **Free**, all limits can be changed. For example, if you have tested your actual thresholds, such as anaerobic and aerobic thresholds, or upper and lower lactate thresholds, you can train with zones based on your individual threshold speed or pace. We recommend that you set your anaerobic threshold speed and pace as the minimum for zone 5. If you also use aerobic threshold, set that as the minimum of zone 3.
TRAINING TARGET WITH SPEED ZONES

You can create training targets based on speed/pace zones. After synchronizing the targets via FlowSync, you'll receive guidance from your training device during training.

DURING TRAINING

During your training you can view which zone you are currently training in and the time spent in each zone.

AFTER TRAINING

In the training summary on V800, you'll see an overview of the time spent in each speed zone. After syncing, detailed visual speed zone information can be viewed in the Flow web service.

SPORT PROFILES

Lets you list all your favorite sports and define specific settings for each one of them. For example, you can create tailored views for each sport you do and choose what data you want to see when you train: just your heart rate or just speed and distance – whatever suits you and your training needs and requirements best.

There are six sport profiles on your V800 by default. In the Flow web service you can add new sport profiles to your sports list, as well as edit them and existing profiles. Your V800 can contain a maximum of 20 sport profiles. The number of sport profiles in the Flow web service is not limited. If you have over 20 sport profiles in the Flow web service, the first 20 in the list are transferred to your V800 when syncing.

You can change the order of your sport profiles by dragging and dropping them. Choose the sport you want to move and drag it into the place you want to put it in the list.

ADD A SPORT PROFILE

In the Flow web service:

1. Click your name/profile photo in the upper right corner.
2. Choose Sport Profiles.
3. Click Add sport profile, and choose the sport from the list.
4. The sport is added to your sport list.

EDIT A SPORT PROFILE

In the Flow web service:
1. Click your name/profile photo in the upper right corner.
2. Choose Sport profiles.
3. Click Edit under the sport you want to edit.

In each sport profile, you can edit the following information:

**RELATED TO SPORT**

**BASICS**

- Automatic lap (Can be set to duration, distance or location-based)
- Training sounds
- Speed view
- Training reminder (You will receive a message after a set duration, distance or a certain amount of calories burned)

**HEART RATE**

- Heart rate view (Beats per minute, % of maximum, % of heart rate reserve)
- Heart rate visible to other devices (Other compatible devices using Bluetooth ® Smart wireless technology (e.g. gym equipment) can detect your heart rate.)
- Heart rate zone settings (With the heart rate zones you can easily select and monitor training intensities. If you choose Default, you cannot change heart rate limits. If you choose Free, all limits can be changed. Default heart rate zone limits are calculated from your maximum heart rate.

**RELATED TO DEVICE**

**TRAINING VIEWS**

Choose what information you see on your training views during your sessions. You can have a total of eight different training views for each sport profile. Each training view can have a maximum of four different data fields.

Click the pencil icon on an existing view to edit it, or add a new view. You can select one to four items for your view from six categories:

<table>
<thead>
<tr>
<th>Time</th>
<th>Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time of day</td>
<td>Altitude</td>
</tr>
<tr>
<td>Duration</td>
<td>Total ascent</td>
</tr>
<tr>
<td>Lap time</td>
<td>Total descent</td>
</tr>
<tr>
<td>Last lap time</td>
<td></td>
</tr>
<tr>
<td>Rest time</td>
<td></td>
</tr>
<tr>
<td>(only in pool swimming)</td>
<td></td>
</tr>
</tbody>
</table>
|               | • Incline  
|               | • Temperature  
|               | • Current lap ascent  
|               | • Current lap descent  
| **Body measurement** | • Heart rate  
|               | • Average heart rate  
|               | • Maximum heart rate  
|               | • HR avg in lap  
|               | • Calories  
|               | • ZonePointer  
|               | • Time in zone  
|               | • RR variation  
| **Distance** | • Distance  
|               | • Lap distance  
|               | • Last lap distance  
| **Speed** | • Speed/pace  
|               | • Average speed/pace  
|               | • Maximum speed/pace  
|               | • Lap speed/pace  
| **Cadence** | • Running/Cycling cadence  
|               | • Average running/cycling cadence  
|               | • Current lap running/cycling cadence  
|               | • Stride length  
|               | • Average stride length  

You can also enable or disable the cumulative HR zone view and the Back to start view from these settings.

**GESTURES AND FEEDBACK**

• Heart Touch  
• Tap  
• Automatic pause  
• Vibration feedback

ℹ️ Please note that stride sensor settings are visible in all single sport profiles. If do not have a stride sensor, ignore this setting.
GPS AND ALTITUDE

- GPS recording rate (Power save, long session is only recommended to be used in long sessions lasting over 10 hours. When using power save mode, the GPS data is not as accurate as in high accuracy mode.)
- Altitude

When you are done with the sport profile settings, click save. To sync the settings to your V800, press synchronize in FlowSync.

Please note that in a number of indoor sports, group sports and team sports profiles the HR visible to other devices setting is enabled by default. This means that compatible devices using Bluetooth Smart wireless technology, e.g. gym equipment, can detect your heart rate. You can check which sport profiles have Bluetooth broadcasting enabled by default from the Polar Sport profiles list. You can enable or disable Bluetooth broadcasting from sport profile settings.

MULTISPORT

Multisport allows you to include multiple sports in one training session, and seamlessly switch between sports without interrupting your training recording. During a multisport training session your transition times between sports are automatically monitored, allowing you to see how long it took you to switch from one sport to another.

There are two different ways to perform a multisport training session: fixed multisport and free multisport. In a fixed multisport (multisport profiles in the Polar sports list) like triathlon, the order of the sports is fixed, and they must be performed in that specific order. In free multisport, you can choose what sports you perform and in which order you perform them by selecting them from the sport list. You can also switch back and forth between sports.

For information on starting a multisport session, see "Start a Training Session" on page 60

SWIMMING

V800 is water resistant to 30 meters, and can be worn during swimming. The H7 heart rate sensor detects your heart rate when swimming with GymLink transmission as Bluetooth Smart® does not work in water. Please note that when using GPS when swimming, interference may occur, and the recorded data is not as accurate as in land activities. GPS may also interfere with GymLink transmission, causing disturbance in heart rate measurement when swimming. Therefore it is recommended to switch GPS off when measuring heart rate in water.

When measuring heart rate in water, you may experience interference because:
• The ECG signal strength is individual and may vary depending on the individual’s tissue composition. Problems occur more frequently when measuring heart rate in water.
• Pool water with high chlorine content and seawater are very conductive. Sensor electrodes can short-circuit in these conditions preventing ECG signal detection.
• Jumping into water or strenuous muscle movement during competitive swimming may shift the sensor on your body where ECG signals are not detected.

SWIMMING METRICS (POOL SWIMMING)

Swimming metrics help you analyze each swimming session, and follow your performance and progress in the long run. The metrics record your swim distance, time and pace, stroke rate, and also identify your swimming style. In addition, with the help of the SWOLF score you can improve your swimming technique.

To get the most accurate information, make sure you have set which hand you wear V800 on. This can be set in V800 General Settings.

Swimming metrics are only available in the Pool swimming profile. To get the Pool swimming profile you must have at least 1.2 firmware on your V800.

SWIMMING STYLES

V800 recognizes your swimming style, and calculates style specific metrics as well as totals for your whole session.

Styles V800 recognizes:

• Freestyle
• Backstroke
• Breaststroke
• Butterfly

PACE AND DISTANCE

The pace and distance measurements are based on pool length, therefore to get accurate data always make sure you have set the correct pool length. V800 recognizes when you turn, and uses this information to give you accurate pace and distance.

STROKES

V800 tells you how many strokes you take in a minute or per pool length. This information can be used to find out more about your swimming technique, rhythm and timing.
SWOLF

SWOLF (short for swimming and golf) is an indirect measure of efficiency. SWOLF is calculated by adding together your time and the amount of strokes it takes you to swim a pool length. For instance, 30 seconds and 10 strokes to swim the length of a pool will equal a SWOLF score of 40. Generally, the lower your SWOLF is for a certain distance and style, the more efficient you are.

SWOLF is highly individual, and thus should not be compared to SWOLF scores other people have swam. It’s rather a personal tool that can help you improve and fine-tune your technique, and find an optimal efficiency for different styles.

CHOOSE POOL LENGTH

It’s important that you choose the correct pool length, as it affects pace, distance and stroke rate calculation, as well as your SWOLF score. The default lengths are 25 meters, 50 meters and 25 yards, but you can also set it manually to a custom length. The minimum length that can be chosen is 20 meters/yards.

The chosen pool length is shown in pre-training mode. To change it from there, press and hold LIGHT to access the Sport Profile quick menu, choose Pool length and set the correct length. It can also be changed in Settings > Sport Profiles > Pool swimming > Pool length.

START A POOL SWIMMING SESSION

1. Press START in time view to enter pre-training mode, and scroll to the Pool swimming profile
2. Check that the pool length is correct (shown on the display).
3. Press START to begin training recording.

DURING YOUR SWIM

During your swim on the display you can view,

- Distance
- Pace
- Time
- Rest time
- Heart rate and heart rate zones

You can customize what is shown on the display in the sport profiles section in the Flow web service.

AFTER YOUR SWIM

In the training summary on your V800 you’ll see,
- Average and maximum pace (pace/100 meters or pace/100 yards).
- Lap information

- Summary by swimming style, which includes:
  - Swimming time
  - Average and maximum heart rate (if a H7 heart rate sensor is used)
  - Average and maximum pace (pace/100 meters or pace/100 yards)
  - Stroke average (strokes/pool length and strokes/minute)
  - SWOLF

After your session you can view detailed breakdown of your swim in the Flow web service.

For more information on swimming metrics, see [www.polar.com/en/support/V800/swimming_metrics_pool_swimming](http://www.polar.com/en/support/V800/swimming_metrics_pool_swimming)

**R-R RECORDING**

R-R recording rate saves RR intervals, i.e. intervals between successive heartbeats. Heart rate varies with every heartbeat. Heart rate variability (HRV) is the variation of RR intervals. The R-R recording feature allows you to record RR intervals for research or coaching purposes without accumulating training data. Please note that you cannot train with V800 when using the R-R recording feature.
PERFORMING R-R RECORDING

To perform R-R recording:

1. Wear the heart rate sensor, and go to Tests > RR recording > Start Recording and press START.
2. Searching for heart rate is displayed. The recording is started when Heart rate found is displayed.
3. To stop the recording, press and hold BACK.

TEST RESULTS

After stopping the recording you will see the result. The result includes:

- Duration
- Start time
- End time
- Minimum heart rate
- Maximum heart rate
- Average heart rate

After syncing your R-R recording results to the Flow web service you can export them to third party services for further analysis.
SENSORS

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POLAR STRIDE SENSOR BLUETOOTH® SMART
PAIR A STRIDE SENSOR WITH V800

Make sure the stride sensor has been correctly attached to your shoe. For more information on setting
up the stride sensor refer to the user manual of the stride sensor.

There are two ways to pair a stride sensor with your V800:

1. Press START in time view to enter pre-training mode.
2. Touch your stride sensor with V800, and wait for it to be found.
3. The device ID Pair Polar Run xxxxxxxxx is displayed. Choose Yes.
4. Pairing completed is shown when you are done.

or

1. Go to General Settings > Pair and sync > Pair other device and press START.
2. V800 starts searching for your stride sensor.
3. Once the stride sensor is found, Polar Run xxxxxxxxx is displayed.
4. Press START, Pairing is displayed.
5. Pairing completed is displayed when you are done.

CALIBRATE THE STRIDE SENSOR

Calibration of the stride sensor improves the accuracy of speed/pace and distance measurements. It is
recommended that you calibrate the stride sensor before using it for the first time, if there are significant
changes in your running style, or if the position of the stride sensor on the shoe is dramatically changed (e.g. if you have new shoes or if you switch the sensor from your right shoe to your left one). The calibration should be done at the speed you normally run. If you run at different speeds, the calibration should be done at your average speed. You can calibrate the stride sensor manually or automatically.

When training with a stride sensor you can choose to use speed data from GPS or from the stride sensor. To set this go to Settings > Sport profiles > Running> Stride sensor > Choose sensor for speed, and choose Stride sensor or GPS.

**MANUAL CALIBRATION**

Manual calibration can be done in two ways. You can run a distance you know, and set the correct distance in Quick menu. You can also set the calibration factor manually if you know the factor which gives you accurate distance.

**SET CORRECT LAP DISTANCE**

To calibrate the stride sensor manually by setting correct lap distance, choose Settings > Sport profiles > Running> Stride sensor > Calibration > Manual > Set correct lap distance

1. Press START in time view to enter pre-training mode, and scroll to the Running profile
2. Start a session, and run a distance you know that is more than 400 meters.
3. When you have the ran the distance, press START to take a lap.
4. Press and hold light to enter the Quick menu, and choose Stride sensor > Calibration > Manual > Set correct lap distance
5. Set the actual distance you have ran. The calibration factor is updated.

**SET FACTOR**

To calibrate the stride sensor manually by setting the factor, choose Settings > Sport profiles > Running> Stride sensor > Calibration > Manual > Set factor: If you already know the factor which gives you accurate distance. **Calibrated. Factor: xxxx** is displayed when you are done.

Manual calibration can also be started during a session, when the stride sensor is in use. Press and hold LIGHT to enter the Quick menu and then choose Stride sensor > Calibration > Manual.

**AUTOMATIC CALIBRATION**

Automatic stride sensor calibration is done based on GPS data and it happens in the background. Current pace, stride length and cumulative distance will be updated and shown correctly after the automatic calibration. Your speed is shown in gray on the display until the calibration is complete. If you manually calibrate your stride sensor later, the GPS based calibration factor will be overwritten.
The automatic calibration is performed twice, and the average of the two calibration factors is used. In your next training session, the average of your previous calibration factor and the factor obtained during that session is used.

The automatic calibration starts after 100 meters. Following criteria has to be met during the calibration distance of 500 m.

- At least 6 satellites have to be available
- Speed has to be at least 7 km/h
- Ascent and descent are less than 30 meters

When running on different surfaces (e.g. road, trail, treadmill), use a different sport profile for each of them to achieve the best calibration for each surface.

To calibrate the stride sensor automatically, choose

- **Settings > Sport profiles > Running > Stride sensor > Calibration > Automatic**

ℹ️ Automatic calibration can also be started during a session, when the stride sensor is in use. Press and hold **LIGHT** to enter the **Quick menu** and then choose **Stride sensor > Calibration > Automatic**.

**RUNNING CADENCE AND STRIDE LENGTH**

Cadence* is the number of times the foot with the stride sensor* hits the ground per minute. Stride length* is the average length of one step. That is the distance between your right and left foot contacting the ground. Running speed = \(2 \times \text{stride length} \times \text{cadence}\). There are two ways to run faster: moving your legs at a higher cadence or taking longer steps. Elite long distance runners typically run with a high cadence of 85-95. On uphills, typical cadence values are lower. On downhills they are higher. Runners adjust stride length to gather speed: stride length increases as speed increases. Yet one of the most common mistakes novice runners make is over-striding. The most efficient stride length is the natural one – the one that feels most comfortable. You will run faster in races by strengthening your leg muscles so they take you forward with a longer stride.

You should also work on maximizing cadence efficiency. Cadence does not progress easily, but if properly trained, you will be able to sustain it throughout your runs and maximize your performance. To develop cadence, the nerve-muscle connection needs to be trained - and reasonably frequently. A session of cadence training a week is a good start. Incorporate some cadence work into the rest of your week. During long easy runs, you could include some faster cadence every now and then. A good way of improving stride length is to undertake specific strength work, like running hills, running in soft sand, or running up steps. A six-week training period including strength work should result in noticeable improvements in stride length, and if combined with some faster leg speed work (such as short strides at best 5km pace), noticeable improvements should be seen in overall speed, as well.
**POLAR SPEED SENSOR BLUETOOTH® SMART**

**PAIR A SPEED SENSOR WITH V800**

Make sure the speed sensor has been correctly installed. For more information on installing the speed sensor refer to the user manual of the speed sensor.

There are two ways to pair a speed sensor with your V800:

1. Press START in time view to enter pre-training mode.
2. V800 starts searching for your speed sensor. Rotate the wheel a few times to activate the sensor. The flashing red light in the sensor indicates that the sensor is activated.
3. The device ID Pair Polar SPD xxxxxxxxx is displayed. Choose Yes.
4. Pairing completed is displayed when the pairing is complete.
5. Sensor linked to: is displayed. Choose Bike 1 or Bike 2. Confirm with START.
6. Set wheel size is displayed. Set the size and press START.

or

1. Go to General Settings > Pair and sync > Pair other device and press START.
2. V800 starts searching for the speed sensor. Rotate the wheel a few times to activate the sensor. The flashing red light in the sensor indicates that the sensor is activated.
3. Once the speed sensor is found, Polar SPD xxxxxxxxx is displayed.
4. Press START, Pairing is displayed.
5. Pairing completed is displayed when the pairing is complete.
6. Sensor linked to: is displayed. Choose Bike 1 or Bike 2. Confirm with START.
7. Set wheel size is displayed. Set the size and press START.

**MEASURING WHEEL SIZE**

Wheel size settings are a prerequisite for correct cycling information. There are two ways of determining the wheel size of your bike:

**Method 1**

Look for the diameter in inches or in ETRTO printed on the wheel. Match it to the wheel size in millimeters in the right column of the chart.

<table>
<thead>
<tr>
<th>ETRTO</th>
<th>Wheel size diameter (inches)</th>
<th>Wheel size setting (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-559</td>
<td>26 x 1.0</td>
<td>1884</td>
</tr>
<tr>
<td>23-571</td>
<td>650 x 23C</td>
<td>1909</td>
</tr>
<tr>
<td>ETRTO</td>
<td>Wheel size diameter (inches)</td>
<td>Wheel size setting (mm)</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>35-559</td>
<td>26 x 1.50</td>
<td>1947</td>
</tr>
<tr>
<td>37-622</td>
<td>700 x 35C</td>
<td>1958</td>
</tr>
<tr>
<td>52-559</td>
<td>26 x 1.95</td>
<td>2022</td>
</tr>
<tr>
<td>20-622</td>
<td>700 x 20C</td>
<td>2051</td>
</tr>
<tr>
<td>52-559</td>
<td>26 x 2.0</td>
<td>2054</td>
</tr>
<tr>
<td>23-622</td>
<td>700 x 23C</td>
<td>2070</td>
</tr>
<tr>
<td>25-622</td>
<td>700 x 25C</td>
<td>2080</td>
</tr>
<tr>
<td>28-622</td>
<td>700 x 28</td>
<td>2101</td>
</tr>
<tr>
<td>32-622</td>
<td>700 x 32C</td>
<td>2126</td>
</tr>
<tr>
<td>42-622</td>
<td>700 x 40C</td>
<td>2189</td>
</tr>
<tr>
<td>47-622</td>
<td>700 x 47C</td>
<td>2220</td>
</tr>
</tbody>
</table>

Wheel sizes on the chart are advisory as wheel size depends on the wheel type and air pressure.

Method 2

- Measure the wheel manually for the most accurate result.
- Use the valve to mark the point where the wheel touches the ground. Draw a line on the ground to mark that point. Move your bike forward on a flat surface for one complete rotation. The tire should be perpendicular to the ground. Draw another line on the ground at the valve to mark a full rotation. Measure the distance between the two lines.
- Subtract 4 mm to account for your weight on the bike to get your wheel circumference.

POLAR CADENCE SENSOR BLUETOOTH® SMART
PAIR A CADENCE SENSOR WITH V800

Make sure the cadence sensor has been correctly installed. For more information on installing the cadence sensor refer to the user manual of the cadence sensor.

There are two ways to pair a cadence sensor with your V800:

1. Press START in time view to enter pre-training mode.
2. V800 starts searching for your cadence sensor. Rotate the crank a few times to activate the sensor. The flashing red light in the sensor indicates that the sensor is activated.
3. The device ID **Pair Polar CAD xxxxxxxx** is displayed. Choose **Yes**.
4. **Pairing completed** is displayed when the pairing is complete.
5. **Sensor linked to:** is displayed. Choose **Bike 1** or **Bike 2**. Confirm with START.

or

1. Go to **General Settings > Pair and sync > Pair other device** and press START.
2. V800 starts searching for the cadence sensor. Rotate the crank a few times to activate the sensor.
   The flashing red light in the sensor indicates that the sensor is activated.
3. Once the cadence sensor is found, **Polar CAD xxxxxxxx** is displayed.
4. Press START, **Pairing** is displayed.
5. **Pairing completed** is displayed when the pairing is complete.
6. **Sensor linked to:** is displayed. Choose **Bike 1** or **Bike 2**. Confirm with START.

**POLAR LOOK KÉO POWER SENSOR BLUETOOTH® SMART**
**PAIR KÉO POWER WITH V800**

Before pairing Kéo Power make sure you have installed the it correctly. For information on mounting the pedals and installing the transmitters see the Polar LOOK Kéo Power user manual that came in the product box or the video tutorial.

Both transmitters need to be paired one at a time, therefore you have to perform the pairing twice when taking Kéo Power into use. After pairing the first transmitter, you can immediately pair the second one by selecting it from the list. Check the device ID can found on the backside of each transmitter to make sure both transmitters have been paired.

There are two ways to pair Keo Power with your V800:

1. Press START in time view to enter pre-training mode.
2. Rotate the cranks to wake up the transmitters.
3. The device ID **Pair Polar PWR xxxxxxxx** is displayed. Choose **Yes**.
4. **Pairing completed** is shown when you are done.

or

1. Go to **General Settings > Pair and sync > Pair other device** and press START.
2. Rotate the cranks to wake up the transmitters. V800 starts searching for Kéo Power.
3. Once the it is found, **Polar PWR xxxxxxxx** is displayed.
4. Press START, **Pairing** is displayed.
5. **Pairing completed** is displayed when you are done.
POWER SETTINGS ON V800

Adjust the power settings to best suit your training needs. Edit the power settings in Settings > Sport profiles, and choose the profile you want to edit, and choose Bike power settings.

In the Bike power settings you’ll find:

- **Power view**: Choose Watts (W), Watts/kg (W/kg) or % of FTP.
- **Power, rolling average**: Set how frequently data points of your power are recorded. Choose 1, 3, 5, 10, 15, 30 or 60 seconds.
- **Set FTP value**: Set your FTP value. The setting range is 60 to 600 watts.
- **Check power zone limits**: Check your power zone limits.

**CALIBRATE KÉO POWER**

Calibrate Kéo Power before starting your session. V800 calibrates itself automatically each time the transmitters wake up and V800 is found. The calibration takes a couple of seconds.

Training temperature has an effect on the calibration accuracy, so make sure your bike's temperature has become stable before you start the offset calibration.

To calibrate Kéo power:

1. Wake up the transmitters by rotating the cranks and choose pre-training mode on your V800 to start the calibration.
2. Keep the bike upright and cranks in place until calibration is completed.

To ensure the calibration is done properly:

- Do not put any weight on the pedals during calibration.
- Do not interrupt the calibration.

When the calibration is complete a green LED will blink on the transmitters, and you can start your session.
IMPORTANT INFORMATION

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CARING FOR YOUR V800

Like any electronic device, Polar V800 should be treated with care. The suggestions below will help you fulfill guarantee obligations and enjoy this product for many years to come.

V800

Keep your training device clean. Use a damp paper towel to wipe dirt from the training device. To maintain the water resistance, do not wash the training device with a pressure washer. Never use alcohol or any abrasive material such as steel wool or cleaning chemicals.

After each time of using the USB port of the training device, check visually that there is no hair, dust or other dirt on the connector. Gently wipe to remove any dirt from the connector pins by using a dry cleaning cloth (like one used to clean glass surfaces). A toothpick can be used to remove hair, dust or other dirt from the connector cavity. Rinse the USB connector with lukewarm water after each session.
The combined impact of moisture and intense abrasion may cause a darker color to come off clothing possibly staining the blue-colored V800.

Operating temperatures are -10 °C to +50 °C / +14 °F to +122 °F.

HEART RATE SENSOR

Connector: Detach the connector from the strap after every use and dry the connector with a soft towel. Clean the connector with a mild soap and water solution when needed. Never use alcohol or any abrasive material (e.g. steel wool or cleaning chemicals).

Strap: Rinse the strap under running water after every use and hang to dry. Clean the strap gently with a mild soap and water solution when needed. Do not use moisturizing soaps, because they can leave residue on the strap. Do not soak, iron, dry clean or bleach the strap. Do not stretch the strap or bend the electrode areas sharply.

ℹ Check the washing instructions on the label of the strap.

STRIDE SENSOR BLUETOOTH® SMART, SPEED SENSOR BLUETOOTH® SMART AND CADENCE SENSOR BLUETOOTH® SMART

Clean the sensors with a mild soap and water solution and rinse them with clean water. To maintain the water resistance, do not wash the sensors with a pressure washer. Do not immerse the speed sensor, cadence sensor or stride sensor in water. Never use alcohol or any abrasive material such as steel wool or cleaning chemicals. Avoid hard hits to the sensors, as these may damage the sensor units.

STORING

Keep your training device and sensors in a cool and dry place. Do not keep them in a damp environment, in non-breathable material (a plastic bag or a sports bag) nor with conductive material (a wet towel). Do not expose the training device to direct sunlight for extended periods, such as by leaving it in a car or mounted on the bike mount.

It is recommended to store the training device partially or fully charged. The battery slowly loses its charge when it is stored. If you are going to store the training device for several months, it is recommended to recharge it after a few months. This will prolong the battery lifetime.

Dry and store the strap and the connector separately to maximize the heart rate sensor battery lifetime. Keep the heart rate sensor in a cool and dry place. To prevent snap oxidation, do not store the heart rate sensor wet in non-breathing material, such as a sports bag. Do not expose the heart rate sensor to direct sunlight for extended periods.
SERVICE

During the two-year guarantee/warranty period we recommend that you have service done by an authorized Polar Service Center only. The warranty does not cover damage or consequential damage caused by service not authorized by Polar Electro. For further information, see Limited International Polar Guarantee.

For contact information and all Polar Service Center addresses, visit www.polar.com/support and country-specific websites.

The username for your Polar Account is always your email address. The same username and password are valid for Polar product registration, Polar Flow web service and app, Polar discussion forum and newsletter registration.

TECHNICAL SPECIFICATION
V800

<table>
<thead>
<tr>
<th>Battery type:</th>
<th>350 mAh Li-pol rechargeable battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating time:</td>
<td>Up to 13 h (continuous training) with heart rate and high accuracy GPS recording, up to 20 h (continuous training) with heart rate and medium accuracy GPS recording, up to 50 h (continuous training) in GPS power save mode with heart rate, approx. 30 days in time mode</td>
</tr>
<tr>
<td>Operating temperature:</td>
<td>-10 °C to +50 °C / 14 °F to 122 °F</td>
</tr>
<tr>
<td>Training computer materials:</td>
<td>ABS + GF, PC/ABS plastic alloy, Aluminum alloy, Stainless steel, Gorilla glass window</td>
</tr>
<tr>
<td>Wrist strap and buckle materials:</td>
<td>Thermoplastic polyurethane, Stainless steel, Aluminum alloy</td>
</tr>
<tr>
<td>Watch accuracy:</td>
<td>Better than ± 0.5 seconds / day at 25 °C / 77 °F temperature</td>
</tr>
<tr>
<td>GPS accuracy:</td>
<td>Distance ±2%, speed ±2 km/h</td>
</tr>
<tr>
<td>Altitude resolution:</td>
<td>1 m</td>
</tr>
<tr>
<td><strong>Ascent/Descent resolution:</strong></td>
<td>5 m</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----</td>
</tr>
<tr>
<td><strong>Maximum altitude:</strong></td>
<td>9000 m / 29525 ft</td>
</tr>
<tr>
<td><strong>Sample rate:</strong></td>
<td>1 s in high accuracy GPS recording, 30 s in medium accuracy GPS recording, 60 s in GPS power save mode</td>
</tr>
<tr>
<td><strong>Accuracy of heart rate monitor:</strong></td>
<td>± 1% or 1 bpm, whichever larger. Definition applies to stable conditions.</td>
</tr>
<tr>
<td><strong>Heart rate measuring range:</strong></td>
<td>15-240 bpm</td>
</tr>
<tr>
<td><strong>Current speed display range:</strong></td>
<td>(0-36 km/h or 0-22.5 mph (when measuring speed with Polar stride sensor))</td>
</tr>
<tr>
<td></td>
<td>(0-127 km/h or 0-79 mph (when measuring speed with Polar speed sensor))</td>
</tr>
<tr>
<td></td>
<td>(0-399 km/h 247.9 mph (when measuring speed with integrated GPS))</td>
</tr>
<tr>
<td><strong>Water resistance:</strong></td>
<td>30 m</td>
</tr>
<tr>
<td><strong>Memory capacity:</strong></td>
<td>60 h training with GPS and heart rate depending on your language settings</td>
</tr>
<tr>
<td><strong>Display resolution:</strong></td>
<td>128 x 128</td>
</tr>
</tbody>
</table>

**HEART RATE SENSOR**

<table>
<thead>
<tr>
<th><strong>Battery type:</strong></th>
<th>CR 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Battery sealing ring:</strong></td>
<td>O-ring 20.0 x 1.0 Material FPM</td>
</tr>
<tr>
<td><strong>Operating temperature:</strong></td>
<td>-10 °C to +50 °C/14 °F to 122 °F</td>
</tr>
<tr>
<td><strong>Connector material:</strong></td>
<td>Polyamide</td>
</tr>
<tr>
<td><strong>Strap material:</strong></td>
<td>38% Polyamide, 29% Polyurethane, 20% Elastane, 13% Polyester</td>
</tr>
<tr>
<td><strong>Water resistance:</strong></td>
<td>30 m</td>
</tr>
</tbody>
</table>
Uses Bluetooth® Smart wireless technology and GymLink transmission.

**POLAR FLOWSYNC SOFTWARE**

To use FlowSync software you need a computer with Microsoft Windows or Mac operating system with an internet connection and a free USB port.

Check the latest compatibility information from support.polar.com.

**POLAR FLOW MOBILE APPLICATION COMPATIBILITY**

Check the latest compatibility information from support.polar.com.

**WATER RESISTANCE OF POLAR PRODUCTS**

Most Polar products can be worn when swimming. They are not, however, diving instruments. To maintain water resistance, do not press the buttons of the device under water. When measuring heart rate in water with a GymLink compatible Polar device and heart rate sensor, you may experience interference for the following reasons:

- Pool water with high chlorine content, and seawater are very conductive. The electrodes of the heart rate sensor may short-circuit, preventing ECG signals from being detected by the heart rate sensor.
- Jumping into water or strenuous muscle movement during competitive swimming may shift the heart rate sensor to a location on the body where ECG signals cannot be picked up.
- The ECG signal strength is individual and may vary depending on the individual’s tissue composition. Problems occur more frequently when measuring heart rate in water.

**Polar devices with wrist-based heart rate measurement** are suitable for swimming and bathing. They will collect your activity data from your wrist movements also when swimming. In our tests, however, we found that the wrist-based heart rate measurement doesn't work optimally in water, so we cannot recommend wrist-based heart rate measurement for swimming.

In the watch industry, water resistance is generally indicated as meters, which means the static water pressure of that depth. Polar uses this same indication system. Water resistance of Polar products is tested according to International Standard ISO 22810 or IEC60529. Every Polar device that has water resistance indication is tested before the delivery to stand water pressure.

Polar products are divided into four different categories according to their water resistance. Check the back of your Polar product for the water resistance category, and compare it to the chart below. Please note that these definitions do not necessarily apply to products of other manufacturers.
When performing any underwater activity, the dynamic pressure generated by moving in water is greater than the static pressure. This means that moving the product under water subjects it to a greater pressure than if the product were stationary.

<table>
<thead>
<tr>
<th>Marking on the back of the product</th>
<th>Washing splashes, sweat, raindrops etc.</th>
<th>Bathing and swimming</th>
<th>Skin diving with snorkel (no air tanks)</th>
<th>SCUBA diving (with air tanks)</th>
<th>Water resistant characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water resistant IPX7</td>
<td>OK</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Do not wash with a pressure washer. Protected against splashes, raindrops etc. Reference standard: IEC60529.</td>
</tr>
<tr>
<td>Water resistant 100 meters</td>
<td>OK</td>
<td>OK</td>
<td>OK</td>
<td>-</td>
<td>For frequent use in water but not SCUBA diving. Reference standard: ISO22810.</td>
</tr>
</tbody>
</table>

**BATTERIES**

The Polar V800 has an internal, rechargeable battery. Rechargeable batteries have a limited number of charge cycles. You can charge and discharge the battery over 300 times before a notable decrease in its capacity. The number of charge cycles also varies according to use and operating conditions. Do not charge the V800 battery when it is wet. Do not charge the battery in temperatures under -10 °C or over +50 °C.
At the end of the working life of the product Polar encourages you to minimize possible effects of waste on the environment and human health by following local waste disposal regulations and, where possible, utilizing separate collection of electronic devices. Do not dispose of this product as unsorted municipal waste.

The Polar H7 heart rate sensor has a user changeable battery. To change the battery yourself, please follow the instructions carefully as instructed in "Changing Heart Rate Sensor Battery" below.

The batteries for the speed sensor Bluetooth Smart®, and cadence sensor Bluetooth Smart® cannot be replaced. Polar has designed the sensors to be sealed in order to maximize mechanical longevity and reliability. The sensors have long-life batteries inside. To purchase a new sensor contact your authorized Polar Service Center or retailer.

For battery information of the Polar stride sensor Bluetooth Smart®, consult the user manual for the product in question.

Keep the batteries away from children. If swallowed, contact a doctor immediately. Batteries should be disposed of properly according to local regulations.

**CHANGING HEART RATE SENSOR BATTERY**

To change the battery of the heart rate sensor yourself, carefully follow the instructions below:

When changing the battery, make sure the sealing ring is not damaged, in which case you should replace it with a new one. You can purchase the sealing ring/battery kits at well-equipped Polar retailers and authorized Polar Services. In the USA and Canada, the additional sealing rings are available at authorized Polar Service Centers. In the USA the sealing ring/battery kits are also available at www.shoppolar.com.

When handling a new, fully charged battery, avoid clasp-like contact, i.e. simultaneously from both sides, with metal or electrically conducting tools, like tweezers. This may short circuit the battery, causing it to discharge more rapidly. Typically, short circuiting does not damage the battery, but it may decrease the capacity and the lifetime of the battery.
**H7**

1. Using a coin, open the battery cover by turning it counterclockwise to OPEN.
2. Insert the battery (CR 2025) inside the cover with the positive (+) side against the cover. Make sure the sealing ring is in the groove to ensure water resistance.
3. Press the cover back into the connector.
4. Use the coin to turn the cover clockwise to CLOSE.

**H10**

1. Lever the battery cover open by using a small flat-headed tool.
2. Remove the old battery from the battery cover.
3. Insert the new battery (CR2025) inside the cover with the negative (-) side outwards.
4. Align the ledge on the battery cover with the slot on the connector and press the battery cover back into place. You should hear a snap.
Danger of explosion if the battery is replaced with wrong type.

**PRECAUTIONS**

The Polar V800 training device shows your performance indicators. The training device is designed to indicate the level of physiological strain and recovery during and after an exercise session. It measures heart rate, speed and distance. It also measures running cadence when used with Polar stride sensor Bluetooth® Smart and cycling cadence when used with a Polar cadence sensor Bluetooth® Smart. No other use is intended or implied.

The training device should not be used for obtaining environmental measurements that require professional or industrial precision.

**INTERFERENCE DURING TRAINING**

**Electromagnetic Interference and Training Equipment**

Disturbance may occur near electrical devices. Also WLAN base stations may cause interference when training with the training device. To avoid erratic reading or misbehavior, move away from possible sources of disturbance.

Training equipment with electronic or electrical components such as LED displays, motors and electrical brakes may cause interfering stray signals. To solve these problems, try the following:

1. Remove the heart rate sensor strap from your chest and use the training equipment as you would normally.
2. Move the training device around until you find an area in which it displays no stray reading or does not flash the heart symbol. Interference is often worst directly in front of the display panel of the equipment, while the left or right side of the display is relatively free of disturbance.
3. Put the heart rate sensor strap back on your chest and keep the training device in this interference-free area as much as possible.

If the training device still does not work with the training equipment, it may be electrically too noisy for wireless heart rate measurement. For further information, [www.polar.com/support](http://www.polar.com/support).

Parts of V800 are magnetic. It may attract metallic materials and its magnetic field may interfere with a compass. To avoid interference, it is recommended to wear your compass on one arm (at the level of your chest) and your V800 on the other arm's wrist. Do not place credit cards or other magnetic storage media near V800, because information stored on them may be erased.
MINIMIZING RISKS WHEN TRAINING

Training may include some risk. Before beginning a regular training program, it is recommended that you answer the following questions concerning your health status. If you answer yes to any of these questions, we recommend that you consult a doctor before starting any training program.

- Have you been physically inactive for the past 5 years?
- Do you have high blood pressure or high blood cholesterol?
- Are you taking any blood pressure or heart medication?
- Do you have a history of breathing problems?
- Do you have symptoms of any disease?
- Are you recovering from a serious illness or medical treatment?
- Do you use a pacemaker or other implanted electronic device?
- Do you smoke?
- Are you pregnant?

Note that in addition to training intensity, medications for heart conditions, blood pressure, psychological conditions, asthma, breathing, etc., as well as some energy drinks, alcohol, and nicotine may also affect heart rate.

It is important to be sensitive to your body's responses during training. **If you feel unexpected pain or excessive fatigue when training, it is recommended that you stop the training or continue at a lighter intensity.**

**Note!** If you are using a pacemaker, defibrillator or other implanted electronic device, you can use Polar products. In theory interference to pacemaker caused by Polar products should not be possible. In practice no reports exist to suggest anyone ever having experienced interference. We cannot however issue an official guarantee on our products' suitability with all pacemakers or other implanted devices, such as defibrillators, due to the variety of devices available. If you have any doubts, or if you experience any unusual sensations while using Polar products, please consult your physician or contact the implanted electronic device manufacturer to determine safety in your case.

If you are allergic to any substance that comes into contact with your skin or if you suspect an allergic reaction due to using the product, check the listed materials in Technical Specifications. To avoid any skin reaction to the heart rate sensor, wear it over a shirt, but moisten the shirt well under the electrodes to ensure flawless operation.

Your safety is important to us. The shape of the Polar stride sensor **Bluetooth®** Smart is designed to minimize the possibility of it getting caught in something. In any case, be careful when running with the stride sensor in brushwood, for example.
The combined impact of moisture and intense abrasion may cause color to come off the heart rate sensor's surface, possibly staining clothes. If you use perfume, suntan/sunscreen lotion or insect repellent on your skin, you must ensure that it does not come into contact with the training device or the heart rate sensor. Please avoid clothing with colors that might transfer onto the training device (especially training devices with light/bright colors) when worn together.

**LIMITED INTERNATIONAL POLAR GUARANTEE**

- This guarantee does not affect the consumer's statutory rights under applicable national or state laws in force, or the consumer's rights against the dealer arising from their sales/purchase contract.
- This limited Polar international guarantee is issued by Polar Electro Inc. for consumers who have purchased this product in the USA or Canada. This limited Polar international guarantee is issued by Polar Electro Oy for consumers who have purchased this product in other countries.
- Polar Electro Oy/Polar Electro Inc. guarantees the original consumer/purchaser of this device that the product will be free from defects in material or workmanship for two (2) years from the date of purchase.
- The receipt of the original purchase is your proof of purchase!
- The guarantee does not cover the battery, normal wear and tear, damage due to misuse, abuse, accidents or non-compliance with the precautions; improper maintenance, commercial use, cracked, broken or scratched cases/displays, armband, elastic strap and Polar apparel.
- The guarantee does not cover any damage/s, losses, costs or expenses, direct, indirect or incidental, consequential or special, arising out of, or related to the product.
- Items purchased second hand are not covered by the two (2) year warranty, unless otherwise stipulated by local law.
- During the guarantee period, the product will be either repaired or replaced at any of the authorized Polar Service Centers regardless of the country of purchase.

Guarantee with respect to any product will be limited to countries where the product has been initially marketed.

This product is compliant with Directives 2014/53/EU and 2011/65/EU. The relevant Declaration of Conformity and other regulatory information for each product are available at [www.polar.com/en/regulatory_information](http://www.polar.com/en/regulatory_information).
This crossed out wheeled bin marking shows that Polar products are electronic devices and are in the scope of Directive 2012/19/EU of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE) and batteries and accumulators used in products are in the scope of Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators. These products and batteries/accumulators inside Polar products should thus be disposed of separately in EU countries. Polar encourages you to minimize possible effects of waste on the environment and human health also outside the European Union by following local waste disposal regulations and, where possible, utilize separate collection of electronic devices for products, and battery and accumulator collection for batteries and accumulators.

Polar Electro Oy is a ISO 9001:2008 certified company.

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COMPLIANCE STATEMENT

CANADA

Polar Electro Oy has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user’s authority to operate the equipment.

Polar Electro Oy n’a approué aucune modification apportée à l’appareil par l’utilisateur, quelle qu’en soit la nature. Tout changement ou toute modification peuvent annuler le droit d’utilisation de l’appareil par l’utilisateur.

Industry Canada (IC) regulatory information
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.

Avis de conformité à la réglementation d'Industrie Canada

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Class B digital device notice

This Class B digital apparatus complies with Canadian ICES-003, RSS-Gen and RSS-210.

Cet appareil numérique de la classe B est conforme à la norme NMB-003, CNR-Gen et CNR-210 du Canada.

USA

Polar Electro Oy has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

FCC regulatory information

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This product emits radio frequency energy, but the radiated output power of this device is far below the FCC radio frequency exposure limits.

This equipment complies with FCC RF radiation exposure limits forth for an uncontrolled environment. Nevertheless, the device should be used in such a manner that the potential for human contact with the antenna during normal operation is minimized.

**DISCLAIMER**

- The material in this manual is for informational purposes only. The products it describes are subject to change without prior notice, due to the manufacturer's continuous development program.
- Polar Electro Inc./Polar Electro Oy makes no representations or warranties with respect to this manual or with respect to the products described herein.
- Polar Electro Inc./Polar Electro Oy shall not be liable for any damages, losses, costs or expenses, direct, indirect or incidental, consequential or special, arising out of, or related to the use of this material or the products described herein.

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