Polar FT60™

User Manual

Polar
LISTEN TO YOUR BODY
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1. GET STARTED

Get to Know Your Polar FT60

The Wrist Unit records and displays your heart rate and other data during training.

The WearLink transmits the heart rate signal to the wrist unit. The transmitter consists of a connector and strap.

The latest version of this user manual can be downloaded at www.polar.fi/support.

Register your Polar product at http://register.polar.fi, and help us improve our products and services to better meet your needs.
Start With Basic Settings

To activate your Polar FT60, press and hold any button for one second. Once the FT60 is activated, it cannot be switched off.

1. **Language:** Select Deutsch, English, Español, Français, Italiano, Português or Suomi with UP/DOWN. Press OK.

2. **Please enter basic settings** is displayed. Press OK.

3. Select **Time format**.

4. Enter **Time**.

5. Enter **Date**.

6. Select **Units**, metric (KG, CM) or imperial (LBS, FT). By selecting lbs/ft, calories are displayed as CAL, otherwise they are shown as KCAL. *Calories are measured as kilocalories.*

7. Enter **Weight**.

8. Enter **Height**.

9. Enter **Date of birth**.

10. Select **Sex**.

11. **Settings OK?** is displayed.

   Select **Yes** to accept and save the settings. **Basic settings complete** is displayed and the FT60 enters Time mode.

   Select **No** if you want to change the settings. **Please enter basic settings** is displayed. Re-enter your basic settings.

To modify your personal settings later, see *Settings.*
Wrist Unit Buttons and Menu Structure

△ UP: Enter the menu and move through selection lists, adjust values

● OK: Confirm selections, select training type or training settings

▼ DOWN: Enter the menu and move through selection lists, adjust values

■ BACK:
  • Exit the menu
  • Return to the previous level
  • Cancel selection
  • Leave settings unchanged
  • With a long press, return to Time view

* LIGHT:
  • Illuminate the display
  • With a long press, enter quick menu in Time view (to lock buttons, set alarm or select time zone) or during training (to adjust training sounds or lock buttons)
Symbols on the Display
The following table presents the display symbols and their descriptions.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Battery" /></td>
<td>The battery of the wrist unit is low.</td>
</tr>
<tr>
<td><img src="image" alt="Alarm" /></td>
<td>The alarm is active.</td>
</tr>
<tr>
<td><img src="image" alt="Sounds" /></td>
<td>Sounds are off.</td>
</tr>
<tr>
<td><img src="image" alt="Time2" /></td>
<td>Time 2 is in use. Number two is displayed at the lower right corner of the display.</td>
</tr>
<tr>
<td><img src="image" alt="Messages" /></td>
<td>You have one or more new messages.</td>
</tr>
<tr>
<td><img src="image" alt="Lock" /></td>
<td>The button lock is active.</td>
</tr>
<tr>
<td><img src="image" alt="Footpod" /></td>
<td>The footpod is in use. If the symbol is blinking, the FT60 is trying to establish a connection with the footpod.</td>
</tr>
<tr>
<td><img src="image" alt="GPS" /></td>
<td>The GPS sensor is in use. If the symbol is blinking, the FT60 is trying to establish a connection with the GPS sensor, or the GPS sensor is trying to establish a connection with the satellites.</td>
</tr>
<tr>
<td><img src="image" alt="HeartRate" /></td>
<td>Heart rate is transmitted.</td>
</tr>
</tbody>
</table>
2. BEFORE TRAINING

Activate Your Polar Star Training Program

The adaptive, personalized and in-built Polar Star Training Program gives you the optimal intensity and time targets for your training. The wrist unit gives feedback on your performance after each training session and once a week.

The Polar FT60 creates a training program based on your user information (weight, height, age, sex), fitness level, activity level, and training goal.

By analyzing your weekly training results and fitness level, the wrist unit gives you training guidance for the following week. The training program adapts to your training habits and to your changing fitness level.

1. In Time mode, select **Menu > Applications > Training program > Create new program**.
2. Perform Polar Fitness Test. For more information, see Test Your Fitness Level.
3. Select your training goal:
   - **Improve fitness** if your target is to improve your current cardiovascular fitness level and you are able to train regularly.
   - **Maximize fitness** if your target is to maximize your current cardiovascular fitness level, and if you have been training regularly for at least 10-12 weeks and training nearly every day is not a problem for you.
   - **Lose weight** if your target is to lose some weight.
4. **Training program created!** is displayed.
5. Next, **View week targets?** is displayed. Select **YES** to view the time and calorie targets for your first training week. If you select **No**, **Training program active!** is displayed and the wrist unit returns to Time view.

---

**Time target**
The amount of time you should train during this week.

**Calorie target**
The number of calories you should burn this week.

---

6. Press DOWN and OK to view your target training time in three different heart rate zones (intensity targets). Press DOWN to change the display.

---

**Time target for intensity zone 1**
The bars indicate the target times in different intensities. The bars fill up as you train. The target time for intensity zone 1 for the week is displayed in the lowest row.

---

7. You have now activated your training program. Press **BACK** to return to Time mode.

To view your week targets later, select **Menu > Applications > Training Program > View week targets**.
### Training Benefits Table

<table>
<thead>
<tr>
<th>Zone</th>
<th>Intensity % of $HR_{\text{max}}$</th>
<th>Training benefit</th>
</tr>
</thead>
</table>
| Zone 3    | 80-90%                           | • Benefits: Increases maximum performance capacity  
• Feels like: Tiredness in muscles and heavy breathing  
• Recommended for: Fit users for short training sessions |
| Zone 2    | 70-80%                           | • Benefits: Improves aerobic fitness  
• Feels like: Good, easy breathing, moderate sweating  
• Recommended for: Everybody for typical training sessions with moderate length |
| Zone 1    | 60-70%                           | • Benefits: Improves basic endurance and helps recovery  
• Feels like: Comfortable, easy breathing, low loading for muscles, light sweating  
• Recommended for: Everybody |

### Troubleshooting

- **User information missing** is displayed > Enter the missing user information.
- **Fitness test result required** is displayed > You need to perform the Fitness Test.

*Read more about training in Training Articles at [http://articles.polar.fi](http://articles.polar.fi).*
Change/End your program

- To change your fitness goal, create a new program in **Menu > Applications > Training program > Change program**. For instance, if you have started with weight loss program and have achieved your goal, change your goal to Improve Fitness or Maximize Fitness.

- To end your active training program, select **Menu > Applications > Training program > End program > End Program?** Select **Yes**.

To view the results of your previous program:

Select **Menu > Applications > Training program > Results of past prog.** The following information is displayed:

- **Start date** and **Duration**: The start date and the duration of the training program.

- **Excel. wks** and **Calories**: The number of excellent training weeks (100% of target reached) vs. total number of training weeks and the calories expended during the program.

- **Before/After**: Your Fitness Test result (OwnIndex) or your weight (when weight loss program active) before and after the program.
Test Your Fitness Level
To train right and to monitor your progress, it is important to know your current fitness level. The Polar Fitness Test™ is an easy and quick way to measure your cardiovascular fitness. The test is performed at rest.

As a result you will get a value called OwnIndex. OwnIndex is comparable to maximal oxygen uptake ($VO_{2\text{max}}$), which is a commonly used aerobic fitness measure. Read more on how to interpret the results in Interpret Your Fitness Test Results.

The OwnIndex value also affects the accuracy of the training program and calorie calculation during training.

The test is developed for healthy adults. To make sure the test is reliable, take the following issues into consideration:

- Avoid distractions. The more relaxed you are and the more peaceful the testing environment is, the more accurate the test result will be (for instance, no television, telephone or talking).
- Avoid heavy physical effort, alcohol and unprescribed pharmacological stimulants on the test day and the day before.
- Avoid eating a heavy meal or smoking 2-3 hours prior to the test.
- Always perform the test in similar conditions and at the same time.
- Make sure that your user information is correct.
Perform Polar Fitness Test

1. Wear the WearLink, lie down and relax for 1-3 minutes.

2. In Time mode, select Menu > Applications > Fitness test > Start test. The fitness test begins instantly once the FT60 has located your heart rate.

3. About 5 minutes later, a beep will indicate the end of the test, and your test result will appear on the display.

4. Press OK. UPDATE VO$_{2\text{max}}$? is displayed.

5. Select Yes to save the test result in your User information and OwnIndex results. If you know your laboratory measured VO2max value and have entered it in User information, select No to save your test result in OwnIndex results only.

Troubleshooting

- **Set activity lev. of past 3 months** is displayed > Set your activity level (see Settings for more information on activity levels). **Activity set!** is displayed and the test begins.

- **Test Failed** is displayed > Your most recent OwnIndex value is not replaced.

- No heart rate shown > Test fails. Check that the transmitter electrodes are moist enough and that the strap is snug enough around your chest.
Interpret your fitness test results

Interpret the OwnIndex values by comparing your individual values and their progression over time. OwnIndex can also be interpreted based on gender and age. Locate your OwnIndex on the table, and find out your fitness level class and how your aerobic fitness compares to others of the same gender and age.

This classification is based on a literature review of 62 studies where VO\textsubscript{2}\text{max} 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.

<table>
<thead>
<tr>
<th>Age</th>
<th>VERY LOW</th>
<th>LOW</th>
<th>FAIR</th>
<th>MODERATE</th>
<th>GOOD</th>
<th>VERY GOOD</th>
<th>ELITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-29</td>
<td>&lt;31</td>
<td>31-35</td>
<td>36-42</td>
<td>43-48</td>
<td>49-53</td>
<td>54-59</td>
<td>&gt;59</td>
</tr>
<tr>
<td>30-34</td>
<td>&lt;29</td>
<td>29-34</td>
<td>35-40</td>
<td>41-15</td>
<td>46-51</td>
<td>52-56</td>
<td>&gt;56</td>
</tr>
<tr>
<td>40-44</td>
<td>&lt;26</td>
<td>26-31</td>
<td>32-35</td>
<td>36-41</td>
<td>42-46</td>
<td>47-51</td>
<td>&gt;51</td>
</tr>
<tr>
<td>50-54</td>
<td>&lt;24</td>
<td>24-27</td>
<td>28-32</td>
<td>33-36</td>
<td>37-41</td>
<td>42-46</td>
<td>&gt;46</td>
</tr>
<tr>
<td>55-59</td>
<td>&lt;22</td>
<td>22-26</td>
<td>27-30</td>
<td>31-34</td>
<td>35-39</td>
<td>40-43</td>
<td>&gt;43</td>
</tr>
</tbody>
</table>
3. TRAINING

Wear the WearLink

Before starting training recording, you need to wear the WearLink.

1. Wet the electrode areas of the strap well under running water.

2. Attach the connector to the strap. Adjust the strap length to fit tightly but comfortably.

3. 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 wet 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 when you are not using it to maximize the transmitter lifetime. See detailed washing instructions in Care and Maintenance.
**Start Training**

1. Wear the wrist unit and WearLink.

2. In Time mode press OK and select **Start** or long-press OK once when you want to start recording your training session.

To modify sound, heart rate view or other training settings before recording your training session, select **Training Settings**. See Settings for more information.

*Your training session is recorded only if the stopwatch has been on for more than one minute.*
Start Training With OwnZone

Starting every training session with the OwnZone guarantees safe and effective heart rate zones for your daily condition. Check your OwnZone at least
• when changing training environment or sport.
• when training for the first time after a week's break.
• If you have not recovered from the previous training or if you are not feeling well or are stressed.
• after changing user information.

Determining OwnZone limits take five minutes, and can be performed as a warm-up. Start slowly keeping your heart rate below 100 bpm/ 50% \( HR_{\text{max}} \). After each minute, increase your speed gradually about 10 bpm/ 5% \( HR_{\text{max}} \).

If you have activated your training program and you actively use the OwnZone determination, the wrist unit takes into account your long-term OwnZone results when updating the program targets.

1. Wear the wrist unit and WearLink.
2. Press OK and select Start with OwnZone.
   • Walk slowly for 1 min.
   • Walk at a normal pace for 1 min.
   • Walk fast for 1 min.
   • Jog for 1 min.
   • Run for 1 min.
   • Speed up.
3. At some point during OwnZone determination, New limits in use is displayed. Proceed normally with your training.

Troubleshooting
• If OwnZone determination fails, and you have determined your OwnZone limits earlier, Previous limits in use is displayed. If you have not determined your OwnZone limits, Age-based limits in use is displayed. The OwnZone determination fails if the heart rate rises too fast during the OwnZone determination, or if the heart rate is too high at the beginning of the test.
During Training

The following information can be displayed during training recording. Press UP/DOWN to change the view. Session duration is displayed in all views.

Heart rate
Your heart rate during training.

Calories
Burned calories.

In zone 1, 2 or 3
Training time in zone and your heart rate. Smiley face means that OwnZone determination was succesfull. If your heart rate is not within the zones, NOT IN ZONE is displayed.
**Week target** (displayed if training program is active)
Weekly target for each zone and the actual training time.

**Speed**
Optional GPS sensor or footpod required to view speed data.

**Distance**
Optional GPS sensor or footpod required to view distance data.
Lock a zone: Depending on your goal for a training session, you can lock zone 1, 2 or 3 during the session. When you are training in a desired zone, lock it by pressing OK for one second. For instance, when you have achieved your weekly target for zones 2 and 3, you can lock zone 1. The zone alarm helps you stay inside the locked zone. For example, zone 2 is locked in this image.

Quick Menu: Long pressing LIGHT during recording brings you to Quick menu. The Quick menu is a shortcut to locking buttons, adjusting training sounds, and if footpod is in use, calibrating it.

Heart Touch: Check the time of day during training recording by bringing the wrist unit near WearLink. Set Heart Touch function On/Off in Settings > Training Settings > HeartTouch.
Stop Training Recording
To pause your training session, press BACK.

To stop the training session press BACK twice and Stopped is displayed.

For more information on instant, training session feedback, see Follow-Up Your Achievements.

Training feedback will be shown only if the training session has lasted for ten minutes or longer.

Detach the transmitter connector from the strap and rinse the strap under running water after every use. Wash the strap regularly in a washing machine at 40°C/104°F at least after every fifth use.
# 4. AFTER TRAINING

## Training Feedback

The wrist unit provides you with the following feedback after a training session.

<table>
<thead>
<tr>
<th>Effect</th>
<th>Training effect feedback. See Table 1 for more information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intensity</td>
<td>Time spent in zones 1, 2, and 3.</td>
</tr>
<tr>
<td>Zone limits</td>
<td>OwnZone limits (displayed if OwnZone in use).</td>
</tr>
<tr>
<td>Calories</td>
<td>Expended calories during the session, and fat percentage.</td>
</tr>
<tr>
<td>Average /Maximum</td>
<td>Average and maximum heart rate during training session.</td>
</tr>
<tr>
<td>Average /Maximum*</td>
<td>Average and maximum speed of training session (displayed only if optional GPS/footpod in use).</td>
</tr>
<tr>
<td>Distance*</td>
<td>Distance and duration of training session (displayed only if optional GPS/footpod in use).</td>
</tr>
<tr>
<td>This week</td>
<td>Your targets for the current training week and the results you have achieved so far. This information is only visible when the program is active.</td>
</tr>
</tbody>
</table>

*Optional GPS sensor or Footpod required to view speed and distance data.
### Table 1.

<table>
<thead>
<tr>
<th>Feedback</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fat burn improving</td>
<td>Training at low intensity is improving your body's ability to burn fat.</td>
</tr>
<tr>
<td>Fitness improving</td>
<td>Training at moderate intensity is improving your fitness.</td>
</tr>
<tr>
<td>Maximal perform. improving</td>
<td>Training at hard intensity is improving your maximal performance.</td>
</tr>
</tbody>
</table>

If you are training enough at more than one intensity level, training will have several effects.

<table>
<thead>
<tr>
<th>Feedback</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fat burn and fitness improving</td>
<td>Training is primarily improving your body's ability to burn fat, but it also improves your fitness.</td>
</tr>
<tr>
<td>Fitness and fat burn improving</td>
<td>Training is primarily improving your fitness, but also your body's ability to burn fat.</td>
</tr>
<tr>
<td>Max. perf. and fitness improving</td>
<td>Training is improving your fitness and maximal performance.</td>
</tr>
</tbody>
</table>
Weekly Follow-up

Every Sunday at midnight, an envelope with the week's results will appear on the display of your wrist unit. Press UP to view.

**Week targets achieved**

Tells you whether or not you have achieved the week's targets.

**Results**

Excellent! / Well done! / Nice! / Fitness maintained / Incomplete training week / Good recovery week / Excellent recovery week

*If your result is excellent, the FT60 rewards you with a trophy. The trophy appears in the time mode display.*

<table>
<thead>
<tr>
<th>Achieved/Week target</th>
<th>Achieved training duration vs. week target duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Achieved/Week target</td>
<td>Expended calories vs. week target</td>
</tr>
<tr>
<td>Sessions</td>
<td>The number of training sessions achieved this week (also displayed without a program).</td>
</tr>
<tr>
<td>Achieved time per zone</td>
<td>Time spent in intensity zones 1, 2, and 3.</td>
</tr>
<tr>
<td>This week</td>
<td>Training guidance for the starting week displayed only when accessed from the envelope. See Table 2 for more information.</td>
</tr>
</tbody>
</table>
Table 2.

<table>
<thead>
<tr>
<th>Training guidance for the starting week</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Train a lot more</td>
<td>You need to train a lot more to get effects.</td>
</tr>
<tr>
<td>Train more</td>
<td>You do not train enough for improvement.</td>
</tr>
<tr>
<td>Train more in zone X</td>
<td>You need to train more in this zone.</td>
</tr>
<tr>
<td>Train like last week!</td>
<td>You did a good job last week. Keep it up!</td>
</tr>
<tr>
<td>Train less in zone X</td>
<td>You should decrease training in this zone.</td>
</tr>
<tr>
<td>Train much less in zone 3</td>
<td>You should train less in hard intensity zone this week.</td>
</tr>
<tr>
<td>Recovery week</td>
<td>You need recovery to avoid overreaching.</td>
</tr>
<tr>
<td>Recovery week still needed</td>
<td>You have not recovered yet; last week was still too hard.</td>
</tr>
<tr>
<td>Train as planned</td>
<td>You have had a good start, continue training according to the program.</td>
</tr>
</tbody>
</table>
Weight Update
If you are following the weight loss program, the FT60 will remind you to update your weight by displaying an envelope once a week.

1. Time to check your weight is displayed. Press OK.
2. Set current weight? appears. Select Yes to update your weight.

Fitness Test
As soon as you reach your training targets, the FT60 will post an envelope reminding you to take a fitness test. The result of the test is taken into account in the weekly program update.

1. Time to test fitness is displayed.
2. Test fitness? appears. Select Yes or No.
3. If you decide to take a new test, see Test Your Fitness Level for more information.

Program Update
Polar FT60 continuously analyzes your progress and adjusts by increasing or decreasing weekly targets. An envelope appears on the display to notify you when the program has been updated. Press UP to open the envelope.

1. Program has been updated is displayed: the FT60 has analyzed your progress and adapted your program targets accordingly.
2. Time for a recovery week is displayed: To optimize your training, you need to have an ideal balance between training and recovery. Recovery week allows your body to improve and adapt to the stimulus that training has provided.
Weight Diary

In the weight diary, you can monitor your weight loss and view your progress over a period of time. To update your weight, select Menu > Applications > Weight diary > Set current weight. Set your weight and press OK. Your current weight will also be updated in User information.

To view your weight trend, select Menu > Applications > Weight diary > Weight trend and press OK.

Weight trend
The weight and the date on which it was entered.
The weight trend including the lowest and highest weight.

To delete a value, select the value you want to delete with UP/DOWN. When the value is displayed, press and hold LIGHT until Delete this value? is displayed. Select Yes.
Follow Your fitness Test Results

On average, it takes six weeks of regular training to improve your aerobic fitness noticeably. To improve your aerobic fitness most efficiently, you need to train large muscle groups. Monitor your long-term test results under the OwnIndex results, containing 47 of your latest OwnIndex values and the date the tests were performed.

1. Select Menu > Applications > Fitness test > OwnIndex results.
2. The latest OwnIndex result and the date of the test is displayed. Press UP/DOWN to view the previous OwnIndex results.

OwnIndex
The date and the result of the test
Your OwnIndex result graph with the lowest and highest OwnIndex value

To delete an OwnIndex value, select the value you want to delete with UP/DOWN. When the value is displayed, press and hold LIGHT until Delete this value? is displayed. Select Yes.
Review Training Data

Review your training data in **Training files**, **Week summaries** and **Totals**.

1. Select **Data > Training files** to view detailed training information on your 100 most recent training sessions. The information is similar to what is displayed after each training session.

   Each bar represents one training session. Select a training session you wish to view.
   
   Upper row: Date and time of day when the file was created
   Lower row: Training time

When **Training files** becomes full, the oldest training file is replaced by the most recent one. If you want to save the file for a longer period, transfer it to Polar web service on www.polarpersonaltrainer.com. For further information, see Transfer Data.

To delete a training file, select **Data > Delete files** and the file you want to delete. *Delete file?* is displayed. Select **Yes**. *Remove from total?* is displayed. To remove the file from totals, as well, select **Yes**.
2. Select **Data > Week summaries** to view the training data and results for the last 16 weeks.

Each bar represents one training week. Select a week you wish to view with UP/DOWN.
Upper row: Week start / Week end date
Lower row: Total training time

To reset week summaries select **Data > Reset weeks?**. Select **Yes** to reset week summaries.

3. Select **Data > Totals since xx.xx.xxxx** to view the total cumulative duration, number of training sessions and calories starting from the last reset.

To reset totals, select **Data > Reset totals** and select **Yes**.
Transfer Data

How to transfer data from your FT60 to polarpersonaltrainer.com

For long-term follow-up, you can store all your training files at polarpersonaltrainer.com. There you can see graphs and more of your training data and get a better understanding of your training. With Polar FlowLink* it is easy to transfer the training files to the web service.

1. Register in polarpersonaltrainer.com
2. Follow instructions to download and install WebSync data transfer software onto your computer.
3. Polar WebSync software is automatically activated and instructions for downloading the data are displayed on your computer. Follow the instructions and your training data is transferred to polarpersonaltrainer.com web service.
4. Place your FT60 onto FlowLink display facing down.
5. Follow data transfer process from the WebSync Software on your computer screen. For further instructions on data transfer, see polarpersonaltrainer.com "Help".

*Optional Polar FlowLink required.
5. SETTINGS

Watch Settings

Select the value you want to change and press OK. Adjust the values with UP/DOWN and accept with OK.

Select Settings > Watch, time and date.
- **Alarm**: Set the alarm to go on Once, from Monday to Friday, Every day, or turn it Off. Press BACK to stop the alarm or UP/DOWN to snooze for 10 minutes. The alarm cannot be used during training.
- **Time**: Select Time 1 and set the time format, hours and minutes. Select Time 2 to set time for another time zone by adding or substracking hours. In the Time view, you can quickly change from Time 1 to Time 2 by pressing and holding DOWN.
- **Time zone**: Select time zone 1 or 2.
- **Date**: Set the date.
- **Watch face**: Select Time and logo, Time and trophy or Time only.

Training Settings

Select Settings > Training settings.
- **Training sounds**: Select Very loud, Loud, Soft or Off.
- **Speed sensor**: Activate or deactivate speed and distance sensor by selecting GPS sensor, Footpod or Off.
- **Heart rate view**: Set the FT60 to display your heart rate as Beats per minute or as Percent of maximum.
- **Speed view**: Select Kilometres per hour (KM/H) / Minutes per kilometre (MIN/KM) or Miles per hour (MPH) / Minutes per mile (MIN/M).
- **Footpod calib. factor**: For more information, see Accessory settings.
- **HeartTouch**: Select On or Off.
- **Zone lock**: Select Zone 1, 2 or 3 to train on a specific heart rate zone or set the zone lock Off.
• **Zone 1 limits**: Adjust your zone 1 limits manually. When setting the upper limit, the lower limit of zone 2 is set automatically.

• **Zone 2 limits**: Adjust your zone 2 limits manually. When setting the lower limit, the upper limit of zone 1 is set automatically. When setting the upper limit, the lower limit of zone 3 is set automatically.

• **Zone 3 limits**: Adjust your zone 3 limits manually. When setting the lower limit, the upper limit of zone 2 is set automatically.

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**User Information**

Select **Settings > User Information** and press OK.

- **Weight**: Enter your weight.
- **Height**: Enter your height.
- **Date of birth**: Enter your date of birth
- **Sex**: Select **MALE** or **FEMALE**.
- **Maximum heart rate** is the highest number of heartbeats per minute (bpm) during maximum physical exertion. Change the default value only if you know your laboratory-measured value.
- **Activity**: Select the alternative that best describes the overall amount and intensity of your physical activity during the past three months.

1. **TOP (5+ hours per week)**: You participate in heavy physical exercise at least 5 times a week, or you exercise to improve performance for competitive purposes.
2. **HIGH (3-5 hours per week)**: You participate at least 3 times a week in heavy physical exercise, e.g. you run 20-50 km or 12-31 miles per week or spend 3-5 hours per week in comparable physical activity.

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**Change the zone limits defined by Polar FT60 only if you know your limits for burning fat, improving fitness and maximizing fitness. If the training program is active, the FT60 will incorporate your new zone limits when updating the program targets.**
3. **MODERATE (1-3 hours per 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.

4. **LOW (0-1 hours per 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.

- **OwnIndex (VO\textsubscript{2max}):** When you perform the Polar Fitness Test, your OwnIndex value is shown as a default. Change the default value only if you know your laboratory-measured VO\textsubscript{2max} value.

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**General Settings**

Select **Settings > General settings**.

- **Button sounds:** Select **Off**, **Soft**, **Loud** or **Very loud**.
- **Button lock:** Select **Manual lock** or **Automatic lock**.
  - **Automatic lock:** The wrist unit automatically locks all the buttons except LIGHT during training. You can switch the button lock off by pressing and holding LIGHT until **Buttons unlocked** is displayed.
  - **Manual lock:** To lock buttons manually, press and hold LIGHT and confirm with OK. To unlock press LIGHT until **Buttons unlocked** is displayed.
- **Units:** Select **Metric (kg/km)** or **Imperial (lb/ft)**. By selecting lb/ft, calories are displayed as Cal, otherwise they are shown as kcal.
- **Language:** Select **Deutsch, English, Español, Français, Italiano, Português** or **Suomi**.
Accessory Settings

Footpod Calibration*
Calibrate Foot Pod during training (on-the-fly calibration)

Make sure the foot pod function in the Polar FT60 is on. Select Settings > Training settings > Speed sensor > Footpod and press OK.

To calibrate the footpod during training, choosing either alternative:
1. Stop running, stand still, and press and hold LIGHT to go to Quick menu.
   OR
2. Stop running, stand still, and press BACK once.

Select Calibrate footpod. Fix the displayed distance with the actual distance you just run, and press OK. Calibration factor set! is displayed. The foot pod is now calibrated and ready for action.

Set Calibration Factor Manually

There are two options for setting the calibration factor manually:

1. Before training: Select Settings > Training settings > Footpod calib. factor. Set the calibration factor and press OK. The foot pod is now calibrated.
2. After starting heart rate measurement and before training recording: In the time mode, press OK and then select Training settings > Footpod calib. factor. Set the calibration factor and press OK. The foot pod is now calibrated. To start training recording press BACK once and then select Start.

*Optional S1 foot pod required.
6. CUSTOMER SERVICE INFORMATION

Caring for Your Polar FT60

**Wrist Unit**: Clean with a mild soap and water solution, dry with towel. Never use alcohol or any abrasive material (steel wool or cleaning chemicals). Keep in a cool and dry place. Do not store 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 to direct sunlight for extended periods.

**Transmitter**: Detach the transmitter connector from the strap and rinse the strap under running water after every use. Dry the connector with a soft towel. Never use alcohol or any abrasive material (steel wool or cleaning chemicals).

**Wash the strap regularly in a washing machine at 40°C/104°F or at least after every fifth use**. This ensures reliable measurement and maximizes the life span of the transmitter. Use a washing pouch. Do not soak, spin-dry, iron, dry clean or bleach the strap. Do not use detergent with bleach or fabric softener. Never put the transmitter connector in the washing machine or drier!

Dry and store the strap and the transmitter connector separately. Wash the strap in a washing machine before long-term storage and always after use in pool water with high chlorine content.

**Service**

Your Polar FT60 is designed to help you achieve personal fitness goals and indicate the level of physiological strain and intensity during training sessions. No other use is intended or implied. 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. Please see the separate Polar Customer Service Card for details. Register your Polar product at http://register.polar.fi/ to ensure we can keep improving our products and services to better meet your needs.
Changing Batteries
Avoid opening the sealed battery cover during the guarantee period. We recommend that you have the battery replaced by an authorized Polar Service Center. They test your Polar FT60 for water resistance after battery replacement and make a full periodic check. Please note the following:

- The low battery indicator is displayed when 10-15% of the battery capacity is left.
- Before battery change, transfer all data from your FT60 to polarpersonaltrainer.com to avoid data loss. For more information see Transfer Data.
- Excessive use of the backlight drains the battery more rapidly.
- In cold conditions, the low battery indicator may appear, but will disappear when the temperature rises.
- The backlight and sound are automatically turned off when the low battery indicator is displayed. Any alarms set prior to the appearance of the low battery indicator will remain active.
- Changing the battery may have an effect on water resistance

To change the battery yourself:
Change the sealing ring of the battery cover every time you change the battery. 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 only. Keep the batteries away from children. If swallowed, contact a doctor immediately. Batteries should be disposed of properly according to local regulations.

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.
1. Open the battery cover with a coin by turning it from CLOSE to OPEN.

2. • When changing wrist unit battery (2a), remove the battery cover and lift the battery out carefully with a suitable sized small rigid stick or bar, for instance, a toothpick or small screwdriver. However, prefer a non-metal tool for wrenching the battery out. Be careful not to damage the metal sound element (*) or the grooves. Insert a new battery with the positive (+) side outwards.

• When changing transmitter battery (2b), place the battery inside the cover with the positive (+) side facing the cover.

3. Replace the old sealing ring with a new one, fitting it snuggly in the cover groove to ensure water resistance.

4. Put the cover back on and turn it clockwise to CLOSE.

5. Re-enter the basic settings if you changed the wrist unit batteries.
Precautions
Minimizing Possible Risks

Training may include some risk. Before beginning a regular training program, answer the following questions concerning your health status. If you answer yes to any of these questions, consult a physician 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?
• Do you have symptoms of any disease?
• Are you taking any blood pressure or heart medication?
• Do you have a history of breathing problems?
• 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, stop the exercise or continue at a lighter intensity.

If you have a pacemaker, defibrillator or other implanted electronic device, you use the Polar FT60 at your own risk. Before starting use, take a maximal training stress test under the supervision of a physician. The test is to ensure the safety and reliability of the simultaneous use of the pacemaker and the Polar FT60.

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 transmitter, wear it over a shirt. Moisten the shirt well under the electrodes to ensure flawless operation. If you use insect repellent on your skin, make sure that it does not come into contact with the transmitter.
Exercise equipment with electronic components may cause interfering stray signals. To tackle these problems, try the following:

1. Remove the transmitter from your chest and use the exercise equipment as you would normally.
2. Move the wrist unit around until you find an area in which it displays no stray reading or does not flash the heart symbol. Interference is often worst right 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 transmitter back on your chest and keep the wrist unit in this interference-free area as much as possible.

If the FT60 still does not work, the piece of equipment may be electrically too noisy for wireless heart rate measurement.

Polar FT60 may be worn when swimming. To maintain water resistance, do not press buttons under water. For more information, visit http://support.polar.fi. Water resistance of Polar products is tested according to International Standard ISO 2281. Products are divided into three 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.

<table>
<thead>
<tr>
<th>Marking on case back</th>
<th>Water resistant characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water resistant</td>
<td>Protected against wash splashes, sweat, raindrops etc. Not suitable for swimming.</td>
</tr>
<tr>
<td>Water resistant 30 m/50 m</td>
<td>Suitable for bathing and swimming</td>
</tr>
<tr>
<td>Water resistant 100 m</td>
<td>Suitable for swimming and snorkeling (without air tanks)</td>
</tr>
</tbody>
</table>
Troubleshooting

If you don't know where you are in the menu, press and hold BACK until the time of day is displayed.

If there are no reactions to any buttons or the wrist unit displays unusual readings, reset the wrist unit by pressing four buttons (UP, DOWN, BACK and LIGHT) simultaneously for four seconds. All other settings but time and date are saved.

If the heart rate reading becomes erratic, extremely high or shows nil (00), make sure that there are no other heart rate transmitters within 1 m/3 ft and that the transmitter strap/the textile electrodes fit snugly and are moistened, clean and undamaged.

If the heart rate measurement does not work with the sports apparel, try measuring using the strap. If it works, the problem is most probably in the apparel. Please contact the apparel retailer/manufacturer.

Strong electromagnetic signals can cause erratic readings. Electromagnetic disturbances may occur near high-voltage power lines, traffic lights, overhead lines of electric railways, electric bus lines or trams, televisions, car motors, bike computers, some motor driven training equipment, cellular phones, or at electric security gates. To avoid erratic readings, move away from possible sources of disturbance.

If the abnormal reading continues despite moving away from the source of disturbance, slow down and check your pulse manually. If you feel it corresponds to the high reading on the display, you may be experiencing cardiac arrhythmia. Most cases of arrhythmia are not serious, but consult your doctor nevertheless.

A cardiac event may have altered your ECG waveform. In this case, consult your physician.

If heart rate measurement does not work despite the actions mentioned previously, the battery of your transmitter may be empty.
Technical Specifications

Wrist Unit

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>CR2025</td>
</tr>
<tr>
<td>Battery life</td>
<td>Average 1 year (1 h/day, 7 days/week exercise)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 °C to +50 °C / 14 °F to 122 °F</td>
</tr>
<tr>
<td>Wrist strap material</td>
<td>Polyurethane</td>
</tr>
<tr>
<td>Back cover and wrist strap buckle</td>
<td>Stainless steel complying with the EU Directive 94/27/EU and amendment 1999/C 205/05 on the release of nickel from products intended to come into direct and prolonged contact with the skin.</td>
</tr>
<tr>
<td>Watch accuracy</td>
<td>Better than ± 0.5 seconds/day at 25 °C / 77 °F temperature.</td>
</tr>
<tr>
<td>Accuracy of heart rate measurement</td>
<td>± 1% or ± 1 bpm, whichever larger, definition applies to steady state conditions.</td>
</tr>
</tbody>
</table>

Transmitter

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery type</td>
<td>CR 2025</td>
</tr>
<tr>
<td>Battery life</td>
<td>Average 2 years (1 h/day, 7 days/week)</td>
</tr>
<tr>
<td>Battery sealing ring</td>
<td>O-ring 20.0 x 1.0 Material FPM</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 °C to +50 °C / 14 °F to 122 °F</td>
</tr>
<tr>
<td>Connector material</td>
<td>Polyamide</td>
</tr>
<tr>
<td>Strap material</td>
<td>35% Polyester, 35% Polyamide, 30% Polyurethane</td>
</tr>
</tbody>
</table>

Limit values

<table>
<thead>
<tr>
<th>Specification</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronometer</td>
<td>23 h 59 min 59 s</td>
</tr>
<tr>
<td>Heart rate</td>
<td>15 - 240 bpm</td>
</tr>
<tr>
<td>Total time</td>
<td>0 - 9999 h 59 min 59 s</td>
</tr>
<tr>
<td>Total calories</td>
<td>0 - 999999 kcal/Cal</td>
</tr>
<tr>
<td>Total exercise count</td>
<td>65 535</td>
</tr>
<tr>
<td>Year of birth</td>
<td>1921 - 2020</td>
</tr>
<tr>
<td>Maximum speed with a GPS sensor</td>
<td>199.9 km/h</td>
</tr>
<tr>
<td>Maximum speed with footpod</td>
<td>29.5 km/h</td>
</tr>
</tbody>
</table>

Polar FlowLink and Polar WebSync 2.1 (or newer)

System Requirements:
- Intel Mac OS X 10.5 or newer
Guarantee and Disclaimer

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, 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.

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Customer Service Information