Displays your heart rate as bpm and % of ${\rm HR}_{\rm max}$, average heart rate and exercise duration



Allows you to set 5 exercise sets for interval training with HR target zones and recovery calculation. Records a complete file and five summary files of the exercises.



Predicts your maximal oxygen uptake



Reduces possible interference from other heart rate monitors



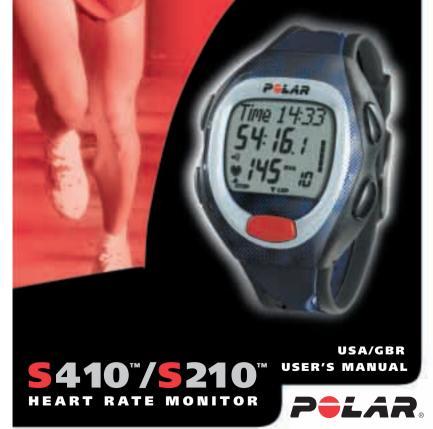
Sports watch features



Allows you to transfer exercise settings from www.polar.fi or www.polarusa.com with Polar UpLink™

5410[™]/5210[™]





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Quick Guide



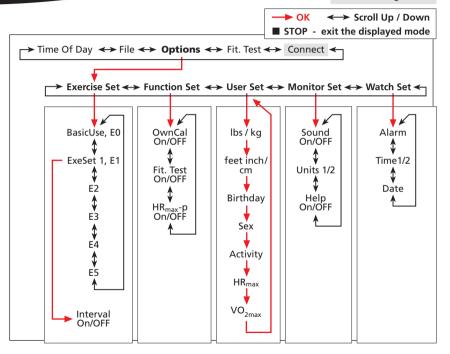
How to Start Measuring Your Heart Rate (BasicUse)

- Place the transmitter around your chest and wet its electrodes. Wear the wrist receiver on your wrist.
- Press and hold the OK button to start the measurement. The stopwatch and the exercise recording start. Your heart rate will appear in max. 15 seconds.

How to Stop Measuring Your Heart Rate

- 1. Press the stop button. The stopwatch and other calculations stop. Heart rate measurement continues but exercise data is not recorded into a file anymore.
- 2. Press the stop button again. The receiver returns to Time of Day display.

The Connect mode that is specific only for the S410 is marked with a grey background.



Dear Customer

Congratulations on purchasing a Polar Heart Rate Monitor! We are proud to assist you in achieving your personal fitness and performance goals. If you want to get even more out of your Polar heart rate monitor during training, check our web sites for the best product and training tips and other value added services:
USA and Canada:
www.polarusa.com
Other countries:
www.polar.fi

Manufactured by:
Polar Electro Oy
Professorintie 5
FIN-90440 KEMPELE
Tel. +358-8-520 2100
Fax +358-8-520 2300
www.polar.fi

Distributed in the USA by Polar Electro Inc.
370 Crossways Park Drive
Woodbury NY 11797-2050
U.S.A.
1-800-227-1314
www.polarusa.com

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The Polar heart rate monitor offers you various possibilities on customising exercise sessions to fit your personal needs.

For example, use the Interval Trainer™ function to guide you through a complete interval training session. Or, you can choose the functions that suit you best: OwnCal® calorie calculation, timers, recovery calculation, etc. After training, you can review your exercise file. Monitor your fitness level, and any long-term changes in it, by performing the quick and easy Polar Fitness Test™.

Please read this manual carefully to familiarize yourself with the Polar heart rate monitor. Here is where you can find the information you need to use and maintain your equipment. The function road map on the front cover is a quick guide to the versatile features of the Polar heart rate monitor. Please tear it off and save it for your reference.

Please refer to the glossary for special terms, display symbols and text explanations. The alphabetical index will help you quickly find answers to any questions that you might encounter while using your Polar heart rate monitor.

Thank you for choosing Polar!

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This manual contains user information for both Polar S410 and Polar S210 heart rate monitor owners. The information specific only for the Polar S410 is marked with a grey background.

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A. GETTING GOING

Heart Rate Monitor Parts and Their Functions

The elastic strap holds the transmitter comfortably, yet firmly, in the correct position.

The transmitter detects your heart rate and transmits it to the wrist receiver.

The wrist receiver displays your heart rate and other data during exercise. Enter your personal settings into the receiver and analyze the exercise files after you're done.



Buttons and Their Functions

Signal/ Light Turns the beep on or off.

Turns the backlight on.

Reset Resets the heart rate monitor.

Stop Return - Stops measuring the heart rate.

Exits the displayed mode and returns to

the previous mode level.

Returns to the Time of Day display from any mode by pressing and

holding the stop button.

OK Accept - Starts measuring the heart rate (start).

Enters the displayed mode shown on the lower level (start). Locks in your selection (ok). Records lap information (lap). The Help text (start, ok or lap) that appears on the display above the

button indicates its use.

SIGNAL/

RESET

STOP

ОК



Useful Tips

- Briefly pressing a button (approximately 1 second) will do different things than pressing and holding the button for a longer period of time (approximately 2 to 5 seconds). If your press the button for a longer period of time, you can use shortcuts.
- The buttons are slightly stiffer than those of an ordinary watch to prevent them from being pressed accidentally.
- You can always return to the Time of Day display from the Options setting or File recalling loops by pressing and holding the stop button.
- See the glossary for display symbols and text interpretation.

Easy Start

How to Prepare the Wrist Receiver

- Since the display is blank when the receiver leaves the factory, you have to activate the wrist receiver by pressing the OK button twice, after which the Time of Day display appears. This is a one-off procedure; once you have turned on your receiver you can not turn it off anymore.
- You may start measuring your heart rate right away
 using the default settings. However, the following
 settings are ones that it would be useful to change as
 soon as possible: Time of Day (see section Watch settings)
 and personal user settings (see section User information
 settings).
- The receiver has various functions that you can use according to your personal training needs. For more information, see section Modes and their functions.
- Wear the wrist receiver as you would wear an ordinary watch. If you go biking, we recommend attaching the wrist receiver to a Polar Bike Mount™.

How to Put the Transmitter On

- 1. Attach the transmitter to the elastic strap.
- Adjust the strap length to fit snugly and comfortably. Secure the strap around your chest, just below the chest muscles, and buckle it.
- Lift the transmitter off your chest and moisten the grooved electrode areas on the back.
- Check that the wet electrode areas are firmly against your skin and the Polar logo is in a central, upright position.

How to Start Measuring Your Heart Rate

- Begin with the display that shows the time of day.
- Keep the wrist receiver withinfeet/ 1 meter of your transmitter.
- Check that you are not near people that have heart rate monitors, high voltage power lines, televisions, mobile phones or other sources of electromagnetic disturbance.



- Press the OK button to start measuring your heart rate. A heart symbol will start flashing and your heart rate (beats per minute) will appear in a maximum of 15 seconds.
- Press OK again. The stopwatch starts running and you can start
 exercising. The exercise data will only be stored in a file if you have
 turned the stopwatch on. Each time you exercise, your previous
 complete file is compressed to summary file.

How to Stop Measuring Your Heart Rate

- Press the stop button. The stopwatch and other calculations stop.
 The heart rate measuring continues, although exercise data is no longer recorded.
- 2. Press the stop button again. The heart rate measuring stops. The receiver shows the Time of Day display again.

After Exercising

- 1. Carefully wash the transmitter with a mild soap and water solution.
- 2. Rinse it with pure water.
- 3. Dry the transmitter carefully with a soft towel.
- 4. Store the transmitter in a clean and dry place. Dirt impairs the conductivity and functioning of the transmitter. Sweat and moisture can keep the electrodes wet and the transmitter activated, which shortens battery life.

Modes and Their Functions

Polar S410/Polar S210 have the following main modes: Time of Day, Exercise, File, Options and Fitness test.

Additionally Polar S410 has connection mode.

1. TIME OF DAY

You can use your Polar heart rate monitor as an ordinary watch with date, weekday indicator and an alarm function. You can also change between two different countries' time zones.

2. EXERCISE

In the Exercise mode, you measure your heart rate and exercise information is recorded in a complete File. You can preset up to five exercise sets for your personal needs. When you start exercising, just select one of the saved sets. Or, you can select BasicUse (heart rate measurement without heart rate limits, timers or other exercise guiding functions).

- **A. During BasicUse,** you can save 99 split and lap times with current, maximum and average heart rates for each lap. You can configure the display to show information on the following:
 - your current heart rate, average heart rate or a reading of your maximum heart rate in percentages
 - the current exercise time (stopwatch)
 - · time of day
 - · current lap and split time as well as the lap number
 - calorie count for your exercise session
- **B. Freely programmable BasicSet** will automatically guide you through your exercise session with the help of the following functions:
 - · three adjustable target heart rate limits
 - · three adjustable, alternating timers
 - time-based or heart-rate-based recovery calculation
- **C. Freely programmable Interval Trainer** will automatically guide you through your interval training session with the help of the following, preset exercise phases:
 - · warm-up with a target heart rate zone and a countdown timer
 - up to 30 intervals with a target heart rate zone. After each interval you have a recovery calculation option.
 - · cool-down with a target zone and a countdown timer

3. FILE

Your receiver stores the latest exercise information in one complete file:

- the start date and time of the exercise
- total exercise time
- · the average and maximum heart rate readings for the exercise session
- the recovery value (only BasicSet)
- · your heart rate limits used during the exercise
- · your time spent in, above and below your target zones during exercise
- OwnCal calorie expenditure
- your cumulative calorie expenditure
- your cumulative exercise time
- · your interval training information: warm-up, interval and cool-down phases
- your lap information: best lap time; lap and split times; and current, average and maximum heart rate for each lap

In addition to a complete file, your five previous exercise sessions will be saved in five **summary files**. These record:

- · the start date and time of the exercise
- total exercising time
- · the average and maximum heart rate readings for the exercise session

4. OPTIONS

In the Options mode, you can enter the following settings:

Exercise Settings: you can select BasicUse with no settings or 5 freely programmable BasicSets or Interval Training Sets

Function settings: OwnCal calorie counter on/off, fitness test on/off, predicted maximum heart rate on/off

User-specific Information: weight, height, date of birth, gender, activity level, maximum heart rate and maximal oxygen uptake

Monitor Settings: activity/button sound on/off, measurement units, Help on/off

Watch Settings: alarm, time of day and date

5. FITNESS TEST

In this mode you can:

- · perform the Polar Fitness Test
- recall your latest test results; OwnIndex and HR____p values
- update your user information to reflect your most recent OwnIndex and HR_{max}-p values

6. CONNECTION

In Polar S410 you have the Connection mode that is used for communication between wrist receiver and computer. In this mode you can:

- transfer your receiver settings from your computer with Polar Precision Performance software version 4 or later
- download recorded exercise information, which is included in the complete file, to your computer for detailed analysis with Polar Precision Performance software version 4 or later

B. HOW TO ENTER SETTINGS



This section describes how to manually enter settings by pressing the receiver buttons. See also chapter "Connection to Computer".



- 1. In the Time of Day display, scroll up or down until OPTIONS is displayed.
- 2. Press OK to enter the Options mode. EXERCISE SET is displayed.
- 3. Scroll up or down until the desired setting mode is displayed.
- 4. Press OK to start the settings.
- Move forward and backward by using the up or down buttons.
- Press OK to start adjusting the value.
- Scroll up or down to adjust the value.
- Press OK to lock in your selection.
- Move backward to the previous setting level by pressing the stop button.
- To return to the Time of Day display, wherever you are in the Options settings: Press and hold the stop button.
- The digits run faster if you press and hold the up or down button as you
 adjust the value. Release the button when approaching the desired value.
- On the display each function is presented by an abbreviated text.
 A flashing block on the display indicates how far you are in the setting mode.

User Information Settings

Options User Set User Set | bs/ kg → feet inch/ cm → Birthday → Sex → Activity → HR_{max} → VO_{2max}

In the User Set loop you can move forward only by pressing OK.

Measuring units depend on your choice in Options/ Monitor Set/ Unit 1 or Unit 2.

	Units 1	Units 2
Weight	kg	lbs
Height	cm	ft/ inch
Date of Birth setting order	day - month - year	month - day - year

- 1. In the Time of Day display scroll up or down until OPTIONS is displayed.
- 2. Press OK to enter the Options mode. EXERCISE SET is displayed.
- 3. Scroll up or down until USER SET is displayed.
- 4. Press OK to start the user information settings.

Weight (lbs or kg)

Scroll up or down to adjust your weight. Press OK.

Height (ft/ inch or cm)

Scroll up or down to adjust your height. Press OK. Press and hold signal/ light button to change the units for weight or height.

B 18

Date of Birth (Birthday)

- Scroll up or down to adjust your month or day of birth. Press OK.
- 8. Day / Month appears. Scroll up or down to adjust the value. Press OK.

Units 1: setting order is day - month - year. Units 2: setting order is month - day - year.

9. Year appears. Scroll up or down to adjust the year of birth. Press OK.

Sex

10. Scroll up or down to select your gender. Press OK.

Activity Level (Activity)

11. Scroll up or down to select your activity level for Polar Fitness Test. Press OK.

Assess your long-term physical activity level. Do not change your activity level description if your regular exercise habits have changed during the last six months.

- Low You do not participate regularly in programmed recreational sport or heavy physical activity. Ex. you walk only for pleasure or occasionally exercise sufficiently to cause heavy breathing or perspiration.
- Middle You participate regularly in recreational sports. Ex. you run 3-6 miles / 5-10 km per week or spend 1/2–2 hours per week in comparable physical activity or, your work requires modest physical activity.
- High You participate regularly, at least 3 times a week, in heavy physical exercise. Ex. you run 6-12 miles / 10-20 km per week or spend 2-3 hours per week in comparable physical activity.

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Top You participate regularly in heavy physical exercise at least 5 times a week. Ex. you exercise to improve performance for competitive purposes.

Maximum Heart Rate Value (HR_{max})

- 12. Your age-predicted maximum heart rate value is displayed as a default setting when you set this value for the first time. If you know your exact clinically tested current maximum heart rate value, set the value by scrolling up or down.
- 13. Press OK.

If you do not know this value, update it in the Fitness Test mode after having carried out the Polar Fitness Test.

Maximal Oxygen Uptake Value (VO_{2max})

- 14. The wrist receiver suggests value 35 for females and value 45 for males as a default setting when you set this value for the first time. If you know your exact clinically tested current maximal oxygen uptake value, set the value by scrolling up or down.
- 15. Press OK. USER SET appears.

If you do not know this value, update it in the Fitness Test mode after having carried out the Polar Fitness Test.

To continue your settings, press the stop button. To return to the Time of Day display, press and hold the stop button.

Exercise Settings

When you start setting your exercise preferences your first choice is to select whether you want to set your personal exercise set or to exercise with BasicUse option. If you select to start setting the exercise sets, your second choice is whether you want to select BasicSet or an Interval Training Set.

Selecting Exercise Type

BasicUse (E0)

BasicUse is a simple mode for exercising. You do not have to do any settings before exercising with this Exercise mode. While exercising, you can see the following optional values on the display:

- current heart rate or average heart rate of the exercise
- stopwatch
- time of day
- · split- and lap times

Additionally, you can follow calories of your exercise session and percentage of your maximum heart rate, if you have set all the user information and turned the functions on.

Exercise Set (E1-E5)

During exercising with this mode you can see the same optional values as in the BasicUse mode. Additionally, the exercise set will guide you through an exercise according to the settings you have made. You can also name the exercise sets Ex. after an exercise type.

You can set following exercise guiding functions:

- 3 heart rate limits
- 3 countdown timers
- · interval function
- recovery calculation

Setting Exercise Sets

Preset exercise sets ready for five exercise sets; when you start exercising, just select one of the sets.

66

Interval Training Set

If you choose interval on, you can set 3 different exercise phases for each exercise set in following order:

Warm-up phase

 countdown timer 1 	On/OFF
 heart rate limits 1 	On/OFF
Interval phase	
• interval calculation type	e: manual,
time- or heart-rate-base	d interval
• number of repeated inte	rval phases
 heart rate limits 2 	On/OFF

Cool-down phase

• countdown timer 3 On/OFF

• heart rate limits 3 On/OFF

time- or heart-rate-based

recovery calculation

If you set the countdown timers of the phase off, you have to manually stop the phase.

BasicSet

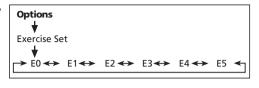
If you choose interval off, you can set the following functions to your exercise:

• timer 1	On/OFF
• timer 2	On/OFF
• timer 3	On/OFF
 heart rate limits 1 	On/OFF
 heart rate limits 2 	On/OFF
 heart rate limits 3 	On/OFF
 recovery calculation 	On/OFF

You should select the timers on sequentially. Ex. you cannot set timer 2 on if timer 1 is off.

On/OFF

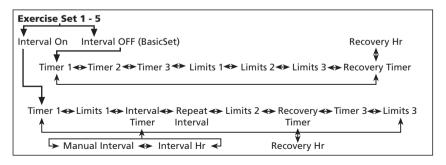
- In the Time of Day display scroll up or down until OPTIONS is displayed.
- Press OK to enter the Options mode. EXERCISE SET is displayed.



- 3. Press OK to start the exercise settings. BasicUse E0 or exercise set E1-E5 is displayed.
- 4. Scroll up or down until the desired exercise type is displayed. Press OK.

If you chose BasicUse (E0): to return to the Time of Day display, press and hold the stop button and skip the rest of the exercise settings. If you chose exercise set (E1-E5) Interval On/OFF is displayed.

Scroll up or down to turn the interval function on or off. Press OK. Timer 1 is displayed.



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Setting Timers

If you start from the Time of Day display, repeat steps 1-5.

- Scroll up or down until desired timer is displayed. Press OK to start setting the timer.
- Scroll up or down to turn the timer on or off. Press OK. Timer OFF: Skip steps 8-9.
- 8. Scroll up or down to adjust minutes. Press OK.
- 9. Scroll up or down to adjust seconds. Press OK.

Setting Heart Rate Limits

If you start from the Time of Day display, repeat steps 1-5.

- 6. Scroll up or down until desired Limits is displayed.
- 7. Press OK to start setting the limits.
- 8. Lim High appears. Scroll up or down to adjust your upper limit. Press OK.
- 9. Lim Low appears. Scroll up or down to adjust your lower limit. Press OK.

Turning Heart Rate Limits on/off

If you start from the Time of Day display, repeat steps 1-5.

- 6. Scroll up or down until desired Limits is displayed.
- 7. Press and hold the signal/light button to turn limits on or off. Release.

Setting Interval Type

You can select 3 optional types of intervals:

A. Time-based interval Ends your interval when you have

used the selected time.

B. Heart-rate-based interval Ends your interval as you reach the

selected heart rate.

When selecting heart-rate-based interval, recovery calculation must be set on.

C. Manual interval End the interval training session by pressing and holding OK.

If you start from the Time of Day display, repeat steps 1-5.

- Scroll up or down until Interval TIMER/ HR/ MANUAL is displayed. Press OK to start setting the interval type. TIMER/ HR/ MANUAL is flashing.
- Scroll up or down to select the interval type that will be used to end the interval. Press OK. If you chose manual interval skip steps 8 - 9.

A. Time-based interval

- Scroll up or down to adjust minutes. Press OK.
- Scroll up or down to adjust seconds. Press OK. Interval TIMER appears.

Or B. Heart-rate-based interval

 Scroll up or down to adjust the heart rate that will end your interval. Press OK. Interval Hr appears.

Setting the Number of Intervals and Recoveries (Repeat)

If you start from the Time of Day display, repeat steps 1-5.

You can set up to 30 intervals and recoveries (if set on) for an interval phase.

- 6. Scroll up or down until Repeat is displayed.
- 7. Press OK to start setting the number.
- 8. Scroll up or down to adjust the number. Press OK.

Or

If you do not know in advance the number of intervals and recoveries select continuous interval. The intervals will succeed until you manually stop the exercise or until 30 intervals have been made.

8. Scroll down until Cont in appears. Press OK.

Setting Recovery Calculation

A.	Time-based recovery	Ends your recovery as you reach the
----	---------------------	-------------------------------------

preset time.

B. Heart-rate-based recovery Ends your recovery as you reach the

preset heart rate.

If you start from the Time of Day display, repeat steps 1-5.

- 6. Scroll up or down until Recovery TIMER/ Hr is displayed.
- 7. Press OK to start setting recovery calculation on or off. On/OFF is flashing.
- Scroll up or down to turn the recovery calculation on or off. Press OK. OFF: skip steps 9-11.
 - On: TIMER/ Hr is flashing.
- 9. Scroll up or down to select recovery timer or heart rate. Press OK.

- A. RecoTime is displayed.
- 10. Scroll up or down to adjust minutes. Press OK.
- 11. Scroll up or down to adjust seconds. Press OK. Recovery TIMER appears.
- B. RecoHr is displayed.
- 10. Scroll up or down to adjust the value. Press OK. Recovery Hr appears.

To continue your settings, press the stop button. To return to the Time of Day display, press and hold the stop button.

Naming Exercise Sets

You can name the exercises, with seven letters, numbers or punctual marks. The available digits are: 0-9, space, A-Z, a-z, -% /() * + : ?.

- 1. In the Time of Day display scroll up or down until OPTIONS is displayed.
- 2. Press OK to enter the Options mode. EXERCISE SET is displayed.
- 3. Press OK. E0 E5 is displayed.
- 4. Scroll up or down until desired exercise set (E1 E5) is displayed.
- 5. Press and hold signal/light button. Adjustable letter is flashing.
- 6. Scroll up or down to select the desired mark. Press OK.
- 7. Repeat previous step until you have chosen all 7 letters.

To continue your settings, press the stop button. To return to the Time of Day display, press and hold the stop button.

Turning Functions on/off

- In the Time of Day display scroll up or down until OPTIONS is displayed.
- Press OK to enter the Options mode. EXERCISE SET is displayed.



- 3. Scroll up or down until FUNCTION SET is displayed.
- 4. Press OK to start the function settings. OwnCal is displayed.

To set the following functions on you have to set your user information. If kg/lbs are displayed as you start setting the function on, the wrist receiver points out that you have not set your all user information.

OwnCal Calorie Counter on/off

If you start from the Time of Day display, repeat steps 1-4.

- 5. Press OK to start setting the OwnCal function. On/OFF starts to flash.
- 6. Scroll up or down to set the OwnCal on or off. Press OK.

To get the most accurate OwnCal results, update the VO_{2max} setting and the HR_{max} setting with clinically measured values (if available). If you do not know your clinically measured values perform Polar Fitness Test and update the OwnIndex and HR_{max} -p settings in Fitness Test mode.

Fitness Test on/off

If you start from the Time of Day display, repeat steps 1-4.

- 5. Scroll up or down until Fit. Test is displayed.
- 6. Press OK to start setting the fitness test. On/OFF starts to flash.
- 7. Scroll up or down to set the fitness test on or off. Press OK.

Predicted Maximum Heart Rate on/off (HR_{max}-p)

If you start from the Time of Day display, repeat steps 1-4.

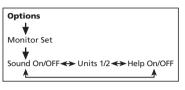
- 5. Scroll up or down until HRmax-p is displayed.
- 6. Press OK to start setting the HR_{max}-p. On/OFF starts to flash.
- 7. Scroll up or down to set the HR_{max}-p on or off. Press OK.

 HR_{max} -p can be turned on only if Polar Fitness Test is on.

To continue your settings, press the stop button. To return to the Time of Day display, press and hold the stop button.

Monitor Settings

- 1. In the Time of Day display scroll up or down until OPTIONS is displayed.
- Press OK to enter the Options mode. EXERCISE SET is displayed.
- Scroll up or down until MONITOR SET is displayed.
- 4. Press OK to start the monitor settings. Sound is displayed.



Turning Activity/Button Sound on/off

If you start from the Time of Day display, repeat steps 1-4.

- 5. Press OK to start setting the sound. On/OFF starts to flash.
- 6. Scroll up or down to set sound on or off. Press OK.

Your receiver has two distinct sounds: activity/button sound and alarms for heart rate zones, watch and fitness test. This setting includes only the activity/button sound settings. Certain Measure and Exercise mode settings will be audible: start, stop, interval phase start and end and recovery calculation end.

Selecting Measuring Units

If you start from the Time of Day display, repeat steps 1-4.

- 5. Scroll up or down until Units is displayed.
- 6. Press OK to start setting the units. 1 or 2 starts to flash.
- 7. Scroll up or down to select the unit which best suits you. Press OK.

The units settings affect the units in the user information settings and the order of your date of birth settings.

Units 1: kg, cm, day-month-year Units 2: lbs, feet, month-day-year

Turning Help on/off

If you start from the Time of Day display, repeat steps 1-4.

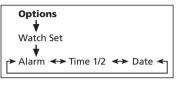
- 5. Scroll up or down until Help is displayed.
- 6. Press OK to start setting the Help function. On/OFF starts to flash.
- 7. Scroll up or down to set the Help on or off. Press OK.

If you turn Help on, the flashing arrows guide you to use the correct buttons in the Options and File modes. If you want to change the middle row information during exercise, the function name will appear for a few seconds.

To continue your settings, press the stop button. To return to the Time of Day display, press and hold the stop button.

Watch Settings

- 1. In the Time of Day display scroll up or down until OPTIONS is displayed.
- Press OK to enter the Options mode. EXERCISE SET is displayed.
- Scroll up or down until WATCH SET is displayed.
- 4. Press OK to start the watch settings. ALARM is displayed.



Setting Alarm

If you start from the Time of Day display, repeat steps 1-4.

- 5. Press OK to start alarm settings. •I) On/OFF starts to flash.
- 6. Scroll up or down to set alarm on or off. Press OK. 24h: skip step 7.

OFF: skip steps 7 - 9.

- 7. 12h: AM/ PM starts to flash. Scroll up or down to select AM or PM. Press OK.
- 8. The hours start to flash. Scroll up or down to adjust the hours. Press OK.
- 9. The minutes start to flash. Scroll up or down to adjust the minutes. Press OK.

When the alarm comes on, it will sound for one minute or you can turn it off by pressing any of the five buttons.

Setting Time of Day

If you start from the Time of Day display, repeat steps 1-4.

- 5. Scroll up or down until TIME1/ TIME2 is displayed.
- 6. Press OK to start setting the Time of Day.
- 7. Time is flashing. Scroll up or down to select time 1 or time 2. Press OK.

- 8. 12h/ 24h starts to flash. Scroll up or down to select 12h or 24h time mode. Press OK. 24h: skip step 9.
- 9. AM/ PM starts to flash. Scroll up or down to select AM or PM. Press OK.
- 10. The hours start to flash. Scroll up or down to adjust the hours. Press OK.
- 11. The minutes start to flash. Scroll up or down to adjust the minutes. Press OK.

Setting Date

If you start from the Time of Day display, repeat steps 1-4.

- 5. Scroll up or down until DATE is displayed.
- 6. Press OK to start adjusting the date.
- Month / Day appears.
 Scroll up or down to select the desired value.
 Press OK.
- 8. Day / Month appears.

 Scroll up or down to select the desired value. Press OK.
- Year digits start to flash.Scroll up or down to select the year. Press OK.

To continue your settings, press the stop button. To return to the Time of Day display, press and hold the stop button.

12h Time mode: month - day - year. 24h Time mode: day - month - year.

Setting Tips

Swap Time 1 or Time 2

In the Time of Day display press and hold the down button. Time 1 or Time 2 is displayed in the uppermost row for a few of seconds. Displayed time will now be used in all watch and alarm functions. If you chose time 2, "2" is displayed in the Time of Day display.

Shortcut to Watch Setting Loop

Press and hold the signal/light button for a few of seconds to enter into the watch setting loop. If you want to skip some parts and go directly to a watch function, scroll up or down button until the desired watch function is displayed. Set the function as in the "Watch settings" section.

Swap Measuring Units

As you set your user information on weight and height. Press and hold the signal/light button until the units are swapped. Release the button.

Swap Date and User ID Number with Polar S410

You are able to set a user ID by Polar Precision Performance software. When set, the user ID number is shown on the upper row of the Time of Day display. You can swap the user ID and date by pressing and holding the up button.

C. EXERCISE

Time of Day

Heart Rate Measure mode

Exercise recording mode

You can use two modes in your exercise: Measure or Exercise mode. In the Measure mode you can see your heart rate but your exercise is not recorded. In the Exercise mode your exercise is recorded and stopwatch and other calculations are started.

Heart Rate Measure Mode

- 1. Wear the transmitter and the wrist receiver as described in "Easy start" section.
- 2. To make sure that the code search will be successful:
- Keep the wrist receiver within 3 feet/ 1 meter of your transmitter.
- Check that you are not near: people with heart rate monitors, high voltage power lines, televisions, mobile phones, cars, motor driven exercise equipment or other electromagnetic disturbance.

3. Start from the Time of Day display by pressing the OK to start measuring your heart rate. A heart symbol will start flashing and your heart rate in beats per minute will appear in max. 15 seconds. The frame around the heart symbol indicates that the heart rate reception is coded.

The following display appears as you enter the Measure mode. You can change this display to Stopwatch display by pressing the up or down button.



The receiver returns automatically to the Time of Day display within 5 minutes if there is no heart rate reception.

Exercise Recording Mode

If you are continuing from the Measure mode, press OK.
Or, if you are starting from the Time of Day display, press and hold OK.

Exercise information will be stored in a complete exercise file only when the stopwatch is running. The ongoing recording is indicated with a graphic bar that runs continuously on the display.

If there is 00 / - - reading on the display, there is no heart rate reception. Bring the wrist receiver up to your chest near the transmitter's Polar logo. The receiver starts looking for the heart rate signal again.



At the start of your workout, when it has lasted less than 60 minutes, the exercise time is displayed in minutes and seconds. When you have exercised more than 60 minutes, the exercise time is displayed in hours and minutes.

Turning the Heart Rate Zone Alarm on/off

Press and hold the signal/light button.

When •)) appears on the display the zone alarm is on. You will hear a beeping sound with each heartbeat if your heartbeat is outside the heart rate limit. If you do not want to use the zone alarm the flashing heart rate reading indicates if your heartbeat is outside the heart rate limit. This function can be used if you have set heart rate limits on in Interval Training Set or BasicSet.

In addition to the alarm you can see:

▲ if you are exercising above heart rate zone.

▼ if you are exercising below heart rate zone.

Swapping the Heart Rate Limits

Press and hold the up button. Repeat until the desired limits are displayed. In the Interval Training mode the limits are automatically swapped when the phase changes to the preset limits.

You have three optional Exercise modes depending on the selected exercise:

- BasicUse
- Interval Training Set (Int On)
- BasicSet (Int OFF)

The following functions can be used during all three optional Exercise modes.

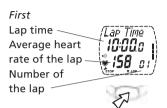
Illuminating the Display

Press the signal/light button.

After you use backlight once in the Measure mode, the receiver automatically illuminates the display if you: start or stop the exercise session, store lap information and at the end of an interval and a recovery calculation.

Storing Lap and Split Time

Press OK to store lap and split time.







The receiver automatically stores a lap time when you stop recording an exercise. You can store 99 laps if you have not used the interval function. After storing 99 laps FULL appears for a few seconds every time you take a lap. You can continue taking laps but they will not be stored. The wrist receiver continues recording all other information of the exercise, except lap and interval information.

Pausing the Exercise

Press the stop button.

The exercise recording, stopwatch and other calculations are paused. To continue them, press OK. Or, to return to the Time of Day display, press and hold the stop button.



The receiver automatically returns to the Time of Day display within 5 minutes if you forget to quit the heart rate measuring after having stopped the stopwatch and taken the transmitter off your chest.

Swapping the Displayed Exercise Information

There are three display options, which you can swap between by pressing the down button. The receiver saves the upper and lower row settings for the three display options. If the Help function is on, the name of the selected function appears for a few seconds. When you start the exercise next time the stopwatch appears on the middle row and the saved functions appear on the upper and lower rows.



When you have set your Interval Training Set on, you will have one extra display in addition to the three primary displays. You can only change the lower row for this display. See the alternative phase displays from "Exercising with Interval Training Set" section.





You can configure the middle and upper rows either in the Measure mode or during the exercise.

Select the Middle Row Information

 Press the down button to select the desired display alternative. When you swap the middle row information, the upper and lower rows change also. Continue selecting the upper and lower rows.

Select the Upper Row Information

Press the up button to select from the following: Time of Day (Time), stopwatch (Sw), lap time (Lp) or calorie expenditure (Cal) if OwnCal is set on.

You cannot select the same displayed function to the upper and middle row i.e. the option on the middle row is no longer available for the upper row.

Select the Lower Heart Rate Information Row

Press and hold the down button to select from the following: Current heart rate, average heart rate (AVG) or the reading in percentages of your maximum heart rate (% MAX) if you have set your user information.

You can only change the displayed function of the lower row if the stopwatch is on.

Resetting the Stopwatch to Zero

- 1. Pause your exercise.
- 2. Press and hold the down button until the stopwatch is reset. Release.
- Press OK to restart the stopwatch and recording. Or, to return to the Time of Day display, press and hold the stop button. As a result of resetting your stopwatch the recorded file is deleted.

Starting an Exercise Set

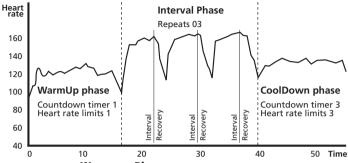
- 1. Start from the Time of Day display. Press OK to enter the Measure mode.
- If you want to swap the preset exercise set, press and hold the up button until the exercise set (E1-E5) is swapped. Release. Repeat until desired exercise set is displayed.
- 3. To start exercising and recording the preset exercise type press OK.

Exercising with Interval Training Set (Int On, E1-E5)

In this mode you can also use the functions in "Exercise recording mode" section.

The Interval Trainer automatically guides you through your exercise. In order to hear the activity sounds when the phase starts and stops make sure the activity/button sound is on. If you have turned the countdown timer of the phase off, you have to stop the phase manually by pressing and holding the OK button. When the stopwatch starts running indicates that Interval Trainer is on. As the interval training exercise ends the receiver automatically starts a BasicUse exercise, which is recorded to the same complete file as your interval training exercise.





Warm-up Phase

WarmUP 1. First

Heart rate limits 1 (if set on).

2. Then

Countdown timer 1.

Heart rate information.

Countdown timer starts running if you have set the timer 1 on. If you have set the timer off, press and hold OK and continue from the interval phase.



3. At the end of warm-up phase

Warm-up phase duration.

Average heart rate of the warm-up phase.

Interval Phase

The receiver records up to 30 repeated interval phases. Your interval phase is divided into interval and recovery calculation (if set on) sections, which alternate continuously through your interval phase.

Interval Session



1. First

Preset heart rate limits 2 (if set on).

2. Then

One of the following is displayed depending on your settings:

A. manual, **B.** time-based or **C.** heart-rate-based interval.



A. Manual interval.

Number of set intervals.

Current interval number.

If you selected manual interval your interval will end as you press and hold OK.

Or



B. Time-based interval.

Countdown timer.

If you selected time-based interval your interval will end as you reach the preset time.





C. Heart-rate-based Interval.

The difference between the preset interval heart rate and current heart rate.

If you selected heart-rate-based interval your interval will end as you reach the preset heart rate reading.



3. At the end of Interval Interval duration.

Average heart rate of the interval.

When your interval ends the wrist receiver automatically continues with following preset function: recovery calculation or cool-down phase.

Recovery Calculation

One of the following is displayed depending on your settings: **A.** time-based recovery calculation or

B. heart-rate-based recovery calculation.



A. Time-based recovery.

Recovery countdown timer.

Current heart rate.





B. Heart-rate-based recovery.

The difference between the preset recovery heart rate and current heart rate.

Current heart rate.

You will hear two beeps when the recovery calculation is done.

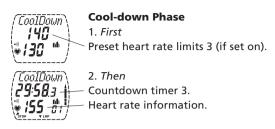


At the end of recovery

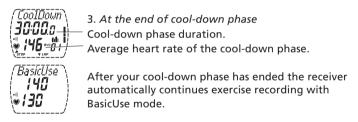
Recovery heart rate or time.

Recovery duration.

Drop in your heart rate.



Countdown timer starts running if you have set the timer 3 on. If you have set the timer off press and hold OK to end the cool-down phase.



You can continue using the heart rate limits of the interval exercise in this mode too. Or, if you want to do another interval training exercise, press and hold the OK button.

Interrupting an Interval Training Exercise

- 1. Press the stop button to pause the exercise.
- 2. Press and hold the stop button to return to the Time of Day display.

Or

Press the stop button. BasicUse appears. You can continue measuring your heart rate in this mode (Measure mode). To continue exercising with BasicUse and recording your exercise information press OK. You can continue using and swapping the same heart rate limits of the previous exercise. Repeat steps 1 and 2 to return to the Time of Day display.

Exercising with BasicSet (Int OFF, E1-E5)

In this mode you can also use the functions in "Exercise recording mode" section.

Starting the Timers

If timers are set on, they automatically start running once you start the stopwatch. Timers alternate in the following order: timer 1, 2, 3, 1, 2, 3, etc. At the end of timer 1 you will hear 1 beep, at the end of timer 2 you will hear 2 beeps and at the end of timer 3 you will hear 3 beeps. Timers stop running when you stop the stopwatch.

Starting Recovery Calculation

To start the recovery calculation, press and hold the OK button. Depending on your setting RecoHr or RecoTime appears in the upper row of the display. See "Exercising with Interval Trainer"/ "Recovery calculation" for the displayed information during the recovery calculation. After the recovery calculation is done the exercise is paused. You can continue the exercise by pressing the OK button after the recovery calculation. If you do another recovery calculation, the recovery information will be deleted in consequence.

Stopping the Exercise

- 1. Press the stop button to pause the exercise.
- Press and hold the stop button until time of day is displayed.Your lap and split time are automatically recorded, when you end the exercise.

Tips During the Exercise

Checking the Heart Rate Limits and Illuminating the Display

Bring the wrist receiver near the transmitter's Polar logo. The backlight is turned on for a few of seconds. The current heart rate limits of the exercise are displayed.

Swapping the Exercise Type (E0 or E1 - E5)

In the Measure mode press and hold the up button. Release. Repeat until desired exercise set or BasicUse is displayed.

Restarting the Interval or Recovery Calculation

In the Exercise mode press the stop button to pause the interval or recovery calculation. Reset the calculation by pressing and holding the down button. To restart the same calculation press the OK button. To reset the interval training exercise, see "Resetting stopwatch to zero" section.

Interrupting an Interval or Recovery Calculation

Press and hold the OK button during your interval training exercise session to interrupt the calculation. The following section automatically starts. Ex. if you interrupt an interval your recovery calculation (if set on) automatically starts.

Interrupting a Phase of an Interval Training Exercise

Press the stop button to pause your phase. Press and hold the OK button. The following phase automatically starts.

D. HOW TO RECALL TRAINING INFORMATION



The receiver starts saving your exercising information as you start the stopwatch. You can recall the information in the File mode. The receiver stores one complete training file at a time. Your latest exercise is stored in a complete file until the next time you start the stopwatch. Then your previous complete file is compressed to a summary file. The summary file includes in addition to the main exercise information the exercise time and maximum and average heart rates of your exercise. The receiver saves five summary files.



Your complete file is F1 the very first time, then F2 and so on, until you have recorded 6 files. Then F6 always indicates the latest complete file and F1 to F5 are the summary files. The bigger the file number the more recent it is.



Some information alternates on the display automatically. You can fasten alternation by pressing the OK button. Ex. the target zone information or heart rate information.

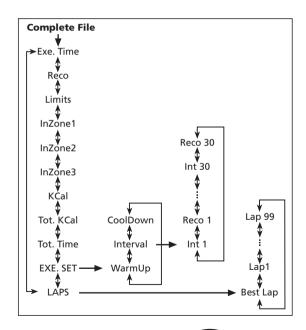
- 1. In the Time of Day display scroll up or down until FILE is displayed.
- Press OK to enter the File mode. The main information of your file is displayed.

Starting date and time alternate on the display.



- If you wish to recall a file, scroll up or down until the desired file is displayed.
- 4. Press OK to start recalling the file. Exe. Time is displayed.

- Move forward and backward within file loops with up or down buttons.
- Press OK to enter a file or to enter a deeper level in the file loop.
- Press the stop button to move backward to the previous file level.
- Press and hold the stop button to return the Time of Day display, wherever you are in the File recalling cycle.



Exercise Time (Exe. Time)



The exercise time is the amount of time that you have exercised with the stopwatch running. Average and maximum heart rates of your exercise alternate on the display. To continue recalling the complete file, scroll up or down button.

This is the first opening display that you will see in both summary and complete files. The summary file does not include any more information. To exit the summary file press the stop button.

Recovery Information of BasicSet Exercise (Reco)



Recovery time.
Recovery duration.

Drop in your heart rate.

Or



Recovery heart rate.

- Time it took reach the preset heart rate reading.

Drop in your heart rate.

Heart Rate Limits 1, 2 and 3 (Limits 1/ Limits 2/ Limits 3) Settings of the heart rate limits alternate on the display. Limits 1 are used for heart rate zone 1, limits 2 for zone 2 and limits 3 for zone 3.

Exercise Time Within, Above and Below the Heart Rate Zones

Indicates the exercise time, which you have spent within (InZone), above and below each heart rate limits during the entire exercise.

Calorie Expenditure (KCal)

You will see how many kilocalories you have expended during the exercise.

Cumulative Calorie Count (Tot. KCal)

Calculates the cumulative calories expended during several exercise sessions starting from the previous resetting. This function allows you to follow the calorie count as a gauge of effective exercise Ex. during one week.

Cumulative Exercise Time Count (Tot. Time)

This function counts cumulative exercise time expended during several exercise sessions starting from the previous resetting. It allows you to follow the exercise time count as a gauge of amount of exercise Ex. during one week.

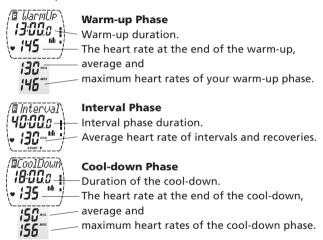


Your cumulative total time is displayed in hours and minutes until 99 hours 59 minutes is reached. After this your cumulative exercise time is displayed in hours until 9999 hours is reached.

Interval Training Information (EXE. SET)

Start with the display showing EXE. SET.

- 1. Press OK to start recalling the interval training information.
- Scroll up or down to see the information on warm-up, interval and cooldown phases.

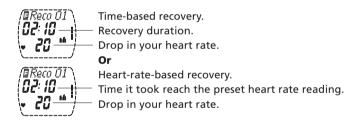


- Press the stop button to return to the previous file level and skip steps
 6. Or, continue recalling more detailed information of the interval phase.
- 4. Start with the display showing Interval. Press OK to see details of each interval and recovery.
- 5. Scroll up or down between intervals (Int) and recoveries (Reco).

Interval information

Interval number		Split time of the interval
(00:000 1) • 160	Interval duration. — The heart rate at the end of the interval, — average and	(5023:01.8) 08:00.0 + 160
170 MRX ————	maximum	
, 19	heart rates of the selected interval	, , ,

Recovery information



To continue recalling, Ex., lap information press the stop button twice.Scroll up or down until LAPS is displayed.

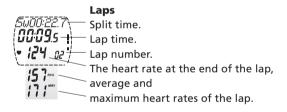
Lap Information (LAPS)

Start with the display showing LAPS and number of the recorded laps.

- 1. Press OK to start recalling the lap information.
- 2. Scroll up or down to see the following information:



The best lap information is displayed if you have stored at least 3 laps. The best lap can not be the last lap.



Press the stop button to exit the LAPS display. Press and hold stop to return to the Time of Day display. **Resetting Your Cumulative Counts to Zero** (Tot. KCal and Tot. Time) Once your have reset the cumulative count you cannot retrieve it. Start with the display showing Tot. KCal or Tot. Time.

- Press OK to start resetting the desired total count. Reset appears and the value starts to flash.
- Press and hold the down button. Reset starts to flash. You can still cancel the resetting by releasing the down button before the value is reset. If you are sure that you want to reset the value keep holding the down button until value is reset. Release.
- 3. Press the stop button to exit the reset display. Press and hold the stop button to return to the Time of Day display.

E. CONNECTION TO COMPUTER

Your Polar S410/S210 offers you the option of transferring exercise sets from www.polarusa.com or www.polar.fi via Polar UpLink. See further instructions at www.polarusa.com or www.polar.fi.

Additionally you can transfer settings with Polar S410 from the software instead of entering them manually. To be able to use the UpLink, you need a PC with a sound card (compatible with Sound BlasterTM) and dynamic loudspeakers or headphones.

The Polar S410 records essential data for your training log. A training log makes it possible to plan future training and to define the most suitable interval training for maximizing performance capacity.

Downloading Training Data to a Computer with Polar Precision Performance Software

Polar S410 offers an easy way to analyse training data by computer afterwards. It starts recording at a sampling rate of 15 seconds up to 120 samples. When the memory is full, it is compressed and a longer averaging period is used (30 s, 1 min, 2 min, 4 min or

Sampling rate	Exercising time
15 s	- 30 min
30 s	30 min - 1 h
1 min	1 h - 2 h
2 min	2 h - 4 h
4 min	4 h - 8 h
8 min	8 h – 16 h

8 min) depending on the recording time. Maximum recording time is 16 hours. The table shows the exercise times for each sampling rate.

To be able to transfer the recorded training information via SonicLink™ and to analyse it with Polar Precision Performance software version 4 or later, you need a personal computer with a sound card and microphone. To make sure that the training information transfer will be successful, check that there are no interfering sounds near the computer.

You can transfer only your complete files to a computer

- 1. Start the software.
- Activate the download function of the software and follow the directions on screen.
- If the receiver is in the Time of Day display scroll up or down until CONNECT is displayed. Make sure that start is displayed.

- 4. Bring and hold the back cover of the receiver next to the computer's microphone. Keep the back cover of the wrist receiver within 2" / 5 cm of the microphone until the SonicLink sound has ceased.
- Press the OK button to start the data transfer. SonicLink and COM appear on the display.

You will hear a chirping sound (SonicLink) while the training information is transferred to the computer. You can monitor the transfer percentage from the receiver's display. Press and hold the stop button to return to the Time of Day display after data transfer.

You can interrupt the data transfer to the computer by pressing the stop button during data transfer. CONNECT is displayed.

Transferring Settings from Computer with Polar Precision Performance Software

Polar S410 offers you the option of transferring your settings with Polar Precision Performance software version 4 or later to the wrist receiver. You are also able to set a user ID number for easier recognition in multi-user situations.

To be able to transfer the settings from Polar Precision Performance software via Polar Uplink, you need a personal computer with a sound card (compatible with Sound Blaster) and dynamic loudspeakers or headphones.

- 1. Start the software.
- Activate the transfer function of the software and follow the directions on screen.
- If the receiver is in the Time of Day display scroll up or down until CONNECT is displayed.
- 4. Place the receiver less than 4"/ 10 cm from the loudspeaker. Do not move the receiver during the data transfer.
- 5. The receiver automatically starts to transfer the information.

UpLink and COM appear. You will hear a chirping sound while information is transferred to the receiver. All settings are transferred completely to the receiver when 100 % is displayed. Press and hold the stop button to return to the Time of Day display after data transfer.

If the data transfer was unsuccessful bring the receiver closer to the loudspeakers or turn the volume level of the loudspeakers up.

You may interrupt the data transfer from the computer by pressing the stop button during data transfer. CONNECT is displayed.

F. POLAR FITNESS TEST



The Polar Fitness Test is an easy, safe and quick way to estimate individual maximal aerobic power and to get predicted maximum heart rate value. The Polar Fitness Test is targeted to healthy adults.

OwnIndex

OwnIndex is a value which is comparable to maximal oxygen uptake (VO_{2max}) , a commonly used descriptor of aerobic fitness. Cardiovascular (aerobic) fitness relates to how well your cardiovascular system works to transport and utilize oxygen in your body. The stronger and more efficient your heart is, the better the cardiovascular fitness is. VO_{2max} is a good indicator of performance in endurance sports.

If you want to improve your cardiovascular fitness, it takes a minimum of 6 weeks on an average to see a noticeable change in OwnIndex. Less fit individuals see progress even more rapidly and for more fit individuals more time is needed. The better the cardiovascular fitness of an individual, the smaller the improvements in OwnIndex.

Cardiovascular fitness is best improved by exercise types which employ large muscle groups. Such activities include running, swimming, rowing, skating, cross-country skiing, cycling and walking.

To monitor your fitness progress start with measuring your OwnIndex a few times during the first two weeks, to get a baseline value. Thereafter, repeat the test approximately once a month. OwnIndex is based on resting heart rate, heart rate variability at rest, age, gender, height, body weight and self-assessed physical activity.

Predicted Maximum Heart Rate (HR_{mav}-p)

The HR_{max}-p definition is carried out simultaneously with the Polar Fitness Test.

The HR_{max}-p score predicts your individual maximum heart rate value more accurately than the age-based formula (220-age). The age-based method provides a rough estimation and may not be very accurate, especially for people who have been fit for many years or for older people. The most accurate way of determining your individual maximum heart rate is to have it clinically measured (in maximal treadmill or bicycle stress test) by a cardiologist or an exercise physiologist.

Your maximum heart rate changes to some extent in relation to your fitness. Regular endurance exercise tends to decrease HR_{max} . There may also be some variation according to the sport you participate in. For example, running HR_{max} > cycling HR_{max} > swimming HR_{max} .

 HR_{max} -p gives the possibility of defining training intensities as percentages of maximum heart rate and of following maximum heart rate changes due to training, without an exhaustive maximal stress test. HR_{max} -p is based on resting heart rate, heart rate variability at rest, age, gender, height, body weight and maximal oxygen uptake, VO_{2max} (measured or predicted). The most accurate HR_{max} -p is obtained by entering your clinically measured VO_{2max} into the wrist receiver.

Fitness Test Settings

To be able to carry out the Polar Fitness Test you need to do the following settings in the Options mode:

- Set your personal user information and long-term physical activity level.
- Set the Polar Fitness Test on.
- Set the HR_{max}-p on if you want to get a prediction of your maximum heart rate.

Carrying Out the Test

To get reliable test results, the following basic requirements apply:

- You should be relaxed and calm.
- The test can take place anywhere home, office, health club as long as the testing environment is peaceful. No disturbing noises (Ex. television, radio or telephone), no other people talking to you.
- Keep the testing place, time of day and environment the same every time the test is repeated.
- Avoid eating a heavy meal or smoking 2-3 hours prior to testing.
- Avoid heavy physical effort, alcoholic beverages or pharmacological stimulants on the test day and the day before.

- In the Time of Day display scroll up or down until FIT. TEST is displayed.
 If you cannot find Fitness Test mode check that you have turned the function on in the Options mode.
- Press OK to enter the Fitness Test mode. Your latest OwnIndex and the testing date are displayed.
- 3. Scroll up or down to see your latest HR_{max}-p and the testing date.
- 4. Lie down and relax yourself for 1-3 minutes before the test.

Start the Test

It takes 3-5 minutes to carry out the test.

- Press OK to start the test. The wrist receiver starts searching for your heart rate. TEST On and your heart rate are displayed. The test begins.
- Lie relaxed. Keep your hands beside your body and avoid body movements. Don't communicate with other people.
- 7. Your current OwnIndex and the testing date are displayed.
- 8. If HR_{max} -p is on: Scroll up or down to see the HR_{max} -p result and the testing date.

Turn the Fitness Test Sound Signal on/off

The sound signal will alarm you at the end of the test. If the sound signal is on •») appears on the display.

 To turn the sound signal on or off either before or during the test, press and hold the signal/light button.

Interrupt the Test

You can stop the test any time during the test by pressing the stop button.
 Failed TEST is displayed for a few seconds.
 The latest OwnIndex and HR_{mav}-p are not replaced.

If the wrist receiver does not succeed in receiving your heart rate at the beginning or during the test, the test will fail. Check that the transmitter electrodes are wet and the elastic strap is snug enough.

Update OwnIndex and HR_{max}-p

You can update your OwnIndex and HR_{max} -p values to the Options mode/ User information. When you update these values regularly, the reading in percentages of your maximum heart rate and calorie calculation give more accurate individual information.

- 1. In the Time of Day display scroll up or down until FIT. TEST is displayed.
- 2. Press OK to enter the Fitness Test mode.
- Scroll up or down until Update USER SET is displayed. This display appears if you have not updated your latest test results.
- 4. Press OK to update the OwnIndex and HR_{max}-p values.
- 5. To return to the Time of Day display, press and hold the stop button.

Your maximum heart rate value is updated if the HR_{max}-p is on.

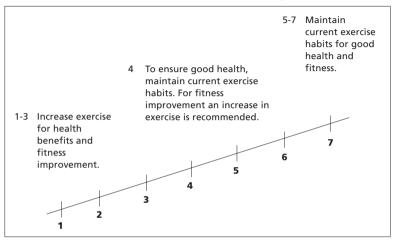
Fitness Classes

The Polar Fitness Test result, your OwnIndex, is most meaningful when comparing your individual values and changes in them. OwnIndex can also be interpreted according to your gender and age. Locate your OwnIndex on the table to find your current cardiovascular fitness classification, compared with those who are of the same age and gender.

	Age	1	2	3	4	5	6	7
MEN	(years)	(very	(poor)	(fair)	(average)	(good)	(very	(excellent)
		poor)					good)	
	20-24	< 32	32-37	38-43	44-50	51-56	57-62	>62
	25-29	< 31	31-35	36-42	43-48	49-53	54-59	>59
	30-34	< 29	29-34	35-40	41-45	46-51	52-56	>56
	35-39	< 28	28-32	33-38	39-43	44-48	49-54	>54
	40-44	< 26	26-31	32-35	36-41	42-46	47-51	>51
	45-49	< 25	25-29	30-34	35-39	40-43	44-48	>48
	50-54	< 24	24-27	28-32	33-36	37-41	42-46	>46
	55-59	< 22	22-26	27-30	31-34	35-39	40-43	>43
	60-65	< 21	21-24	25-28	29-32	33-36	37-40	>40
	20-24	< 27	27-31	32-36	37-41	42-46	47-51	>51
	25-29	< 26	26-30	31-35	36-40	41-44	45-49	>49
	30-34	< 25	25-29	30-33	34-37	38-42	43-46	>46
	35-39	< 24	24-27	28-31	32-35	36-40	41-44	>44
	40-44	< 22	22-25	26-29	30-33	34-37	38-41	>41
\leq	45-49	< 21	21-23	24-27	28-31	32-35	36-38	>38
	50-54	< 19	19-22	23-25	26-29	30-32	33-36	>36
	55-59	< 18	18-20	21-23	24-27	28-30	31-33	>33
	60-65	< 16	16-18	19-21	22-24	25-27	28-30	>30

The classification is based on literature review of 62 studies where VO_{2max} was measured directly in healthy adults subjects in the USA, Canada and 7 European countries. Reference: Shvartz E, Reibolia RC: Aerobic fitness norms for males and females aged 6 to 75 years: a review. Aviat Space Environ Med; 61:3-11, 1990.

For various fitness classes we recommend the following:



Top athletes typically score OwnIndex values above 70 (men) and 60 (women). Values as high as 95 can be reached by athletes of Olympic caliber. OwnIndex is highest in sports that involve large muscle groups such as cross-country skiing and cycling.

G. CARE AND MAINTENANCE

Your Polar heart rate monitor is a high-tech instrument of superior design and workmanship and should be treated with care. The suggestions below will help you fulfill the warranty obligations and enjoy this product for many years to come.

Taking Care of Your Polar Heart Rate Monitor

- Wash the transmitter regularly after use with a mild soap and water solution. Dry it carefully after washing with soft towel.
- Never store the transmitter wet. Sweat and moisture can keep its electrodes wet and the transmitter activated, which shortens the battery life.
- Store your Polar heart rate monitor in a cool and dry place. Do not store
 it in any kind of non-breathing material, such as a plastic bag or a sports
 bag if it is wet.
- Do not bend or stretch the transmitter. This may damage the electrodes.
- Do not dry the transmitter in any other way than with a towel.
 Mishandling may damage the electrodes.
- Keep your Polar heart rate monitor out of extreme cold and heat. The operating temperature is 14 °F to 122 °F/ -10 °C to 50 °C.
- Do not expose the Polar heart rate monitor to direct sunlight for extended periods, such as by leaving it in a car.

Batteries

Transmitter

The estimated average battery life of the transmitter is 2500 hours of use. Contact authorized Polar service center for a replacement transmitter. Polar recycles used transmitters. See your Customer Care Charter for detailed instructions.

Wrist Receiver

The estimated average battery life of the wrist receiver is 2 years in normal use (2h/ day, 7 days a week). Please note that excessive use of the backlight and the alarm signals will drain the battery more rapidly. Do not open the wrist receiver yourself. To ensure the water resistance properties and the use of qualified components, the wrist receiver battery should be replaced by an authorized Polar Service Center only. At the same time a full periodic check of the Polar heart rate monitor will be done.

Service

Should your Polar heart rate monitor need service, see the Customer Care Charter to contact an authorized Polar Service Center.

1

Water resistance cannot be guaranteed after unauthorized service.

H. PRECAUTIONS

Using the Polar Heart Rate Monitor in a Water Environment

Your Polar heart rate monitor is water resistant to 160 feet/ 50 meters. To maintain the water resistance, do not operate the buttons of the wrist receiver under water.

Users measuring heart rate in a water environment may experience interference for the following reasons:

- Pool water with a high chlorine content and seawater are very conductive. The electrodes of a Polar transmitter may become short circuited which prevents EKG signals from detection by the transmitter unit.
- Jumping into the water or strenuous muscle movement during competitive swimming may cause water resistance that shifts the transmitter on the body to a location where it is not possible to pick up EKG signal.
- The EKG signal strength varies depending on the individual's tissue composition and the percentage of people who have problems in heart rate measuring is considerably higher in a water environment than in other use.

Polar Heart Rate Monitor and Interference

Electromagnetic Interference

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 exercise equipment, cellular phones or when you walk through electric security gates.

Crosstalk

The Polar wrist receiver in non-coded mode (mode is indicated by heart symbol without frames) of operation picks up transmitter signals within 3 feet/ 1 meter. Non-coded signals from more than one transmitter picked up simultaneously can cause an incorrect readout.

Exercise Equipment

Several pieces of exercise equipment with electronic or electrical components such as LED displays, motors and electrical brakes may cause interfering stray signals. To try to tackle these problems, relocate the Polar wrist receiver as follows:

- Remove the transmitter from your chest and use the exercise equipment as you would normally.
- 2. Move the wrist receiver around until you find an area in which it displays no stray reading or flashing of 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 the chest and keep the wrist receiver in this interference-free area as far as it is possible.

 If the Polar heart rate monitor still does not work with the exercise equipment, this piece of equipment may be electrically too noisy for wireless heart rate measurement.

Minimizing Possible Risks in Exercising with a Heart Rate Monitor

Exercise may include some risk, especially for those who have been sedentary.

Before starting a regular exercise program an individual is recommended to answer to the following questions for health status checking. If the answer is yes to any of the questions, we recommend to consult a doctor before starting an exercise program.

- Have you not exercised for the past 5 years?
- Do you have high blood pressure?
- Do you have 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 another implanted electronic device?
- Do you smoke?
- Are you pregnant?

Note that in addition to exercise intensity, medications for heart, blood pressure, psyche, asthma, breathing etc. as well as some energy drinks, alcohol and nicotine, can affect heart rate.

It is important to be sensitive to your body's reactions during the exercise. If you feel unexpected pain or tiredness regarding your exercise intensity level, it is recommended to stop the exercise or continue at a lighter intensity.

Notice to persons with pacemakers, defibrillator or other implanted electronic device. Persons who have a pacemaker use the Polar heart rate monitor at their own risk. Before starting use, we always recommend an exercise test under doctor's supervision. The test is to ensure the safety and reliability of the simultaneous use of the pacemaker and the heart rate monitor.

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

The combined impact of moisture and intense abrasion may cause a black color, which might stain light-colored clothes especially, to come off the transmitter's surface.

I. FREQUENTLY ASKED QUESTIONS

What should I do if...

...I don't know where I am in the Options or File cycle?
Press and hold the stop button until time of day is displayed.

...I cannot find the previous exercise's file?

You may have used the Measure mode during your exercise, which means that your exercise was not stored. To record the exercise you have to turn the stopwatch on by pressing the OK button in the Measure mode.

...I cannot find the expended calories from my exercise file?

Check that you have set your personal user information and turned the OwnCal function on. Check that your heart rate has reached over 90 bpm or above 60 % of your maximum heart rate during your exercise.

...I cannot turn my HR_{max}-p on?

Check that you have set your personal user information and turned the fitness test on before turning the HR

...there is no heart rate reading (- -)?

- Check that the electrodes of the transmitter are moistened and that you are wearing it as instructed.
- 2. Check that you have kept the transmitter clean.
- Check that you are not near other people that have heart rate monitors, high voltage power lines, televisions, mobile phones or other sources of electromagnetic disturbance.
- Have you had a cardiac event which may have altered your EKG waveform? In this case consult your physician.

...the code search was not successful?

The frame around the heart symbol will disappear. Bring the receiver up to your chest near the transmitter's Polar logo. The receiver starts looking for a heart rate signal again. If you still do not succeed in code searching, but your heart rate is displayed and the heart symbol without a frame is flashing, you can start exercising but your wrist receiver may become disturbed by other heart rate monitors.

...heart symbol flashes irregularly?

- Check that the wrist receiver is not further than 3 feet/ 1 meter from the transmitter.
- 2. Check that the elastic strap has not become loose during exercise.
- 3. Make sure that the electrodes of the transmitter are moistened.
- 4. Make sure that there is no other heart rate transmitter within 3 feet/ 1 meter.
- Cardiac arrhythmia may cause irregular readings. In this case consult your physician.

...other person with heart rate monitor is causing interference?

Keep a distance from your training partner and continue your training session normally.

Or

- Take the transmitter off your chest for 30 seconds. Keep a distance from your training partner.
- Put the transmitter back and bring the receiver up to your chest near the transmitter's Polar logo. The receiver starts looking for a heart rate signal again. Continue your training session normally.

...heart rate reading becomes erratic or extremely high?

You may have come within range of strong electromagnetic signals which cause erratic readings. Check your surroundings and move further away from the source of disturbance.

...the display is blank or fading?

If the display is blank, activate the wrist receiver by pressing the OK button twice, after which the Time of Day display appears. The first sign of a discharged battery is the battery symbol on the display. Also the digits fade when the backlight is used. Have the batteries checked.

...there are no reactions to any buttons?

Reset the Polar heart rate monitor. Resetting clears watch settings which will return to the default settings. User information and measuring units settings will be saved.

- Press the RESET button with a pen tip. Display becomes full of digits.
 If you don't press any button after reset within one minute the wrist
 receiver goes to the Time of Day display.
- 2. Press any of the buttons once. The time of Day is displayed.

...the battery of the wrist receiver must be replaced?

We recommend having all service done by an authorized Polar Service Center. This is especially necessary to ensure the warranty remains valid and is not affected by incorrect repair procedures done by an unauthorized agent. Polar Service will test your wrist receiver for water resistance after battery replacement and make a full periodic check of the complete Polar heart rate monitor.

J. TECHNICAL SPECIFICATIONS

Polar heart rate monitor is designed to indicate the level of physiological strain and intensity in sports and exercise. No other use is intended or implied. Heart rate is displayed as number of heartbeats per minute (bpm).

Transmitter

Battery type: Built-in Lithium Cell

Battery life: Average 2500 hours of use

Operating temperature: 14 °F to 122 °F/ -10 °C to +50 °C

Material: Polyurethane

Waterproof

Elastic Strap

Buckle material: Polyurethane

Fabric material: Nylon, polyester and natural rubber

including a small amount of latex

Wrist Receiver

Battery type: CR 2430

Battery life: Average 2 years (2h/ day, 7 days/ week)

Operating temperature: $14 \,^{\circ}\text{F}$ to $122 \,^{\circ}\text{F}/-10 \,^{\circ}\text{C}$ to $+50 \,^{\circ}\text{C}$

Water resistance: to 160 feet/ 50 meters

Wrist strap material: Polyurethane

Backcover and wrist strap buckle material: Stainless steel complying with EU Directive 94/27/EU and its amendment 1999/C 205/05 on the release of nickel from products intended to come into direct and prolonged contact with the skin.

Watch accuracy better than \pm 0,5 seconds/ day at 77 °F/ 25 °C temperature. Accuracy of heart rate measurement: \pm 1% or \pm 1 bpm, whichever larger, definition applies to steady state conditions.

Default Settings

In USA and Canada		Activity	Low
Time of Day	12 h	HR _{max}	220-age
In other countries		VO _{2max}	
Time of Day	24 h	male	45
Alarm	OFF	female	35
Date of Birth	0	Activity sound	On
(adjustable range		In USA and Canada	
for year is 1921 - 2020)		Units	2
Sex	Male	In other countries	
Weight	0	Units	1
Height	0	Help	On
		OwnCal	OFF

Fitness test On HR_{max}-p OFF

Interval function OFF/ interval timer

Interval heart rate 160 Number of intervals 3

Timer 1, 2, 3 OFF/ 2 min Limits 1, 2, 3 80/ 160

Recovery function OFF/ recovery timer

Recovery heart rate 80
Recovery timer 1 min

Limit Values

Exercise time 99 h 59 min 59 s

Heart rate limits 30 - 240

Heart rate zone time 99 h 59 min 59 s

Recovery time 99 min 59 s

Recovery time 99 min 59 s
Calories 99 999 kcal
Cumulative calories 999 999 kcal

Cumulative exercise time 9999 h Laps recorded to memory 99

Interval phases recorded to memory 30

K. LIMITED POLAR INTERNATIONAL GUARANTEE

- This limited Polar international guarantee is issued by Polar Electro Inc. for the consumers who
 have purchased this product in the USA or Canada. This limited Polar international guarantee is
 issued by Polar Electro Oy for the consumers who have purchased this product in other countries.
- Polar Electro Inc. / Polar Electro Oy guarantees to the original consumer/ purchaser of this
 product that the product will be free from defects in material or workmanship for two years
 from the date of purchase.
- Please keep the receipt or International Guarantee Card, which is your proof of purchase!
- Guarantee does not cover battery, damage due to misuse, abuse, accidents or non-compliance with the precautions; improper maintenance, commercial use, cracked or broken cases.
- Guarantee does not cover any damage/s, losses, costs or expenses, direct, indirect or incidential, consequential or special, arising out of, or related to the product. During the guarantee period the product will be either repaired or replaced at an authorized service center free of charge.
- 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 CE marking shows compliance of this product with Directive 93/42/EEC.

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M. POLAR GLOSSARY

Activity level: A personal assessment of your long term physical activity level that is used in the Polar Fitness Test.

BasicSet mode: Exercise set, which interval is set off.

Coded heart rate transmission:

Polar coded transmitter automatically locks in a code to transmit your heart rate to the wrist receiver. In a coded transmission the receiver accepts heart rate data only from the Polar coded transmitter.

Coding significantly reduces crosstalk caused by other users of heart rate monitors. However, it does not necessarily reduce all environmental interference.

Configuring the display: During the exercise you can modify display options by selecting information to the lower and upper rows.

Electrodes: The grooved areas of the transmitter that rest against the skin and pick up the EKG signal. **Exercise mode**: The stopwatch is on and your exercise is recorded. You can select between the BasicUse, Interval Training Set and BasicSet.

Interval training: Seeks to improve your race pace with different periods of work and rest.

Maximal oxygen uptake:

(maximal aerobic power, VO_{2max})
Is the maximal rate at which oxygen
can be used by the body during
maximal work. VO_{2max} is a good
index of aerobic fitness

Maximum heart rate: (HR_{max}) Is the highest number of heart beats per minute of a person.

Measure mode: Measuring your heart rate without recording the exercise.

Summary file: Presents the main information of your exercise.

Target heart rate zone: The area between the upper and lower target heart rate limits. Target zone selection is based on personal fitness goals.

Display Symbols

- Indicates an ongoing heart rate measurement and flashes to the beat of your heart. A heart without frames indicates a non-coded heart rate transmission.
- Frame around the heart indicates a coded transmission of heart rate.
- **60** Indicates there has not been heart rate reception for at least 5 seconds.
- Indicates there is no heart rate reception. Bring the wrist receiver up to your chest near the transmitter's Polar logo.
 The receiver starts looking for the heart rate signal again.
- •ii) In the Time of Day display the alarm is on.

 Measure mode: beeps if you are exercising outside your target heart rate zone. Fitness Test mode: sounds an alarm at the end of the fitness test.
- Indicates the Interval Trainer.
- **M**: Indicates continuous interval (Cont).
- ▲ Exercise mode: indicates the heart rate above the target zone.
- Exercise mode: indicates the heart rate below the target zone.
- The graphic bar consists of five blocks. A flashing block indicates in which level you are in the Options settings or File recalling loops.

 Continuously running bars indicate that the exercise is recorded.
- □ Indicates low battery.

Display Texts

ALARM: Indicates the alarm in watch settings.

AM or PM: Are used in 12h time mode. Ex. in 24h time mode 13:00 means 1:00 PM.

AVG: Together with a reading indicates average heart rate. **BasicUse**: Exercising without

settings.

BestLap: Indicates the shortest lap time information.

Cont: Up to 30 intervals succeed one another unless the Interval phase is manually stopped.

CoolDown: Cool-down phase at the end of an interval training exercise.

EO: BasicUse settings

E1-E5: Indicates which exercise set you have used for the exercise.

ExeSet: Start setting your BasicSet (Int OFF) or Interval Training Set (Int On).

Exe. Time: Exercise duration **FILE**: Indicates the file mode.

FIT. TEST: Indicates fitness test mode. FULL: After having stored 99 laps (the use of intervals reduces the amount). FULL appears in the display. You can continue taking lap times or intervals but they won't be

HR_{max}-**p**: Predicted maximum heart rate value

recorded into the file

Interval, Int: Options mode: indicates Interval Training Set. Exercise mode: Indicates interval exercise session including warm-up, interval and cool-down phases.

InZone/ Above/ Below: Indicate the time spent within, above and below the target zone.

KCal: Indicates the energy expenditure of your exercise.

LAPS: Indicates how many lap times have been stored.

Lim High: The higher heart rate limit of the target zone.

Lim Low: The lower heart rate limit of the target zone.

Limits 1, 2, 3: Heart rate limits for target zones 1, 2 and 3.

MAX: Together with a heart rate reading indicates the highest heart rate.

MAX %: Together with a heart rate reading indicates what percentage your current heart rate is of your maximum heart rate.

OPTIONS: Indicates the Options mode.

OwnCal: Calculates energy expenditure during exercise in kilocalories. 1 kilocalorie (kcal) = 1000 calories (cal). You can follow how much energy you lose by exercising in one exercise session or in a day, week or even a year. The OwnCal can be used as a dose measure of exercise Fx. in nutrition planning, OwnCal calorie calculation starts when your heart rate reaches 90 bpm or is above 60% of your maximum heart rate. whichever is smaller. These limits are set to count only exercise calories. The higher the heart rate, the faster the energy expenditure.

OwnCal is individually calibrated by your preset weight, maximal oxygen uptake (VO_{2max}) and maximum heart rate (HR_{max}). The most accurate OwnCal is received by entering your clinically measured (in maximal treadmill or bicycle stress test) VO_{2max} and HR_{max} into the wrist receiver. Energy expenditure measurement is most accurate in continuous activities such as cycling and running.

OwnINDEX: Result of Polar Fitness Test and comparable score with maximal oxygen uptake (VO_{2max} in ml/kg/min).

RecoHr, heart-rate-based recovery: You set the heart rate, which will end your recovery calculation. In the File mode you will see the drop in your heart rate and the recovery duration.

RecoTime, time-based recovery: You set the recovery time in the Options mode. In the File mode you will see the drop in your heart rate and the recovery duration.

Split Time: The elapsed time from the beginning of the exercise until storing the split time.

Sw: Indicates stopwatch.

Timer1, 2, 3: Interval Training mode: Countdown timers for the Interval Training set.

WarmUp: Warm-up phase in the beginning of an Interval Training exercise.

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