



Displays your heart rate as bpm and % of HR_{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 complete files of the exercises.



Predicts your maximal oxygen uptake.



Reduces possible interference from other heart rate monitors.



Sports watch features.



Cycling functions – speed, altitude and thermometer. Optional cadence™ and power output sensors™.



Infra red communication allows two-way exchange of settings and exercise data with a PC.

S720i™/S710i™
HEART RATE MONITOR

POLAR®

S720i™/S710i™
HEART RATE MONITOR

USER'S MANUAL

POLAR®

Quick Guide

Signal/Light

Stop

- exit the displayed mode
- return to the Time of day display



OK

- start measuring the heart rate
- lock in your selection

▲ Up

- move onward
- increase the selected value

▼ Down

- move backward
- reduce the selected value

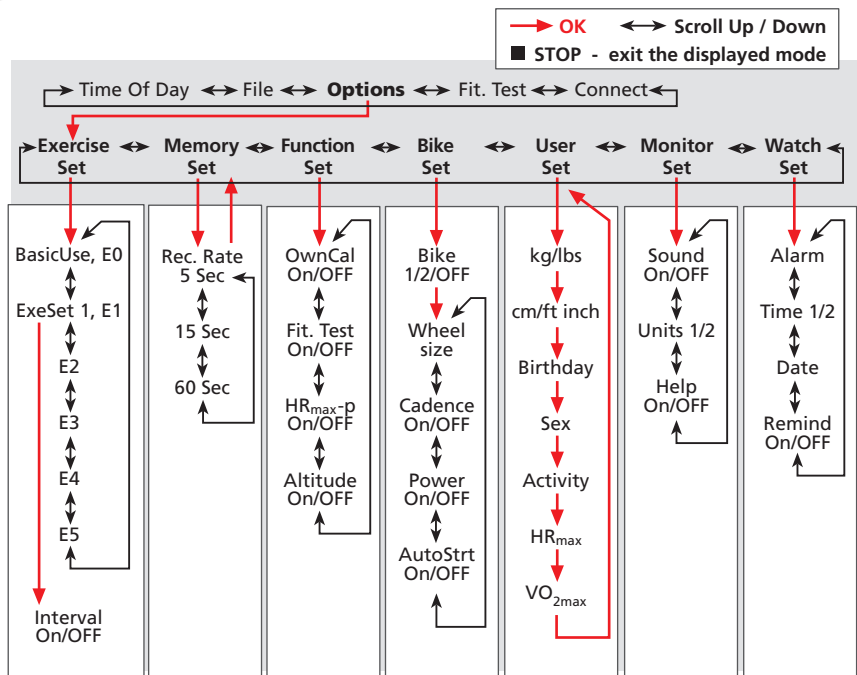
How to Start Measuring Your Heart Rate (BasicUse)

1. Place the transmitter around your chest and wet the electrodes. Place the wrist receiver on your wrist.
2. Press and hold the OK button to start the measurement. The stopwatch and the exercise recording start. Your heart rate will appear in about 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 the Time of day display.

Road Map



Dear Customer

Congratulations on purchasing a Polar Heart Rate Monitor! We are proud to assist you in achieving personal fitness and performance goals. If you want to get even more out of your Heart Rate Monitor during training, check www.polar.fi for:

- the best product and training tips in Polar Personal Trainer
- the software updates and other value added service for your S-series heart rate monitor in Polar Product Support



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POLAR®

Polar heart rate monitor models S720i and S710i offer you the same features. The difference between these products is in their appearance: Polar S720i case is stainless steel whereas Polar S710i case is plastic.

The features of this heart rate monitor provides you with the various ways to customise your exercise sessions so they meet 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: e.g. timers, recovery calculation and cycling information. After training, you can review your exercise file and transfer it to your computer for analysis with Polar Precision Performance™ software. 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 familiarise 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.

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!

CONTENTS

A. Getting going 5

Heart rate monitor parts	5
Buttons and their functions	6
Easy start	8
How to prepare the wrist receiver	8
Installing the Polar Bike Mount	9
Installing the Polar Speed Sensor	9
How to put the transmitter on	11
How to start measuring your heart rate	11
How to stop measuring your heart rate	12
After exercising	12
Modes and their functions	13

B. How to enter settings 18

User information settings	19
Exercise settings	22
Selecting exercise type	22
Setting exercise sets	23
Setting timers	25
Setting heart rate limits	25
Heart rate limits on/off	25
Setting interval type	26
Setting number of intervals and recoveries	27
Setting recovery calculation	28
Naming exercise sets	29

Setting recording rate	30
Turning functions on/off	32
OwnCal calorie counter on/off	32
Fitness test on/off	32
Predicted maximum heart rate on/off	33
Altitude and thermometer on/off	33
Bicycle feature settings	34
Wheel size	34
Cadence on/off	36
Power on/off	37
Autostart on/off	37
Naming bike 1 or 2	38
Monitor settings	39
Activity/button sound on/off	39
Selecting measuring units	39
Help on/off	40
Watch settings	41
Setting alarm	41
Setting time of day	42
Setting date	42
Reminders on/off	43
Setting tips	44
Swap time 1 or time 2	44
Shortcut to watch settings	44
Swap measuring units	44
Swap date, user ID number, user name and logo	44

C. Exercise 45

Measure mode	45
Autostart for recording a cycling exercise	48
Exercise recording mode	48
Heart rate zone alarm on/off	49
Swapping the heart rate limits	50
Illuminating the display	50
Storing lap and split time	51
Pausing the exercise	51
Swapping the displayed exercise information	52
Resetting the stopwatch to zero	54
Starting an exercise set	54
Exercising with Interval Training Set	55
Warm-up phase	56
Interval phase	56
Cool-down phase	59
Interrupting an interval training exercise	60
Exercising with BasicSet	60
Starting the timers	60
Starting the recovery calculation	61
Stopping the exercise	61
Tips during exercise	61
Swapping the exercise type	61
Swapping the bike setting	62

Resetting the trip distance	62
Returning to the manually set altitude	62
Restarting the interval or recovery calculation	62
Interrupting an interval or recovery calculation	63
Interrupting a phase of an interval training exercise	63
Heart touch function	63

D. How to recall training information 64

Exercise time	66
Recovery information of BasicSet	66
Exercise distance	66
Speed information	66
Cadence information	66
Altitude	67
Temperature	67
Ascended metres/feet	67
Power	67
Pedalling index	67
Left right pedalling balance	67
Heart rate limits	67
Exercise time within, above and below the heart rate zones	67

Calorie expenditure	68
Cumulative calorie count	68
Cumulative exercise time count	68
Cumulative riding time	68
Odometer	68
Interval Training information	69
Lap information	71
Recorded samples	73
Deleting a file	74
Deleting all files	74
Records file	74
Resetting cumulative counts to zero	75
Returning to your previous maximum value	76
E. Connection to computer	77
Downloading training data to computer	77
Uploading settings from computer	78
F. Polar Fitness Test	80
OwnIndex	80
Predicted maximum heart rate	82
Fitness test settings	83
Carrying out the test	83
Update OwnIndex and HR _{max} -p	85
Fitness classes	86

G. Care and maintenance	88
H. Precautions	91
I. Frequently asked questions	95
J. Technical Specifications	99
K. Limited Polar Warranty ...	102
L. Disclaimer	103
M. Polar glossary	104
Display symbols	105
Display texts	106
Index	110

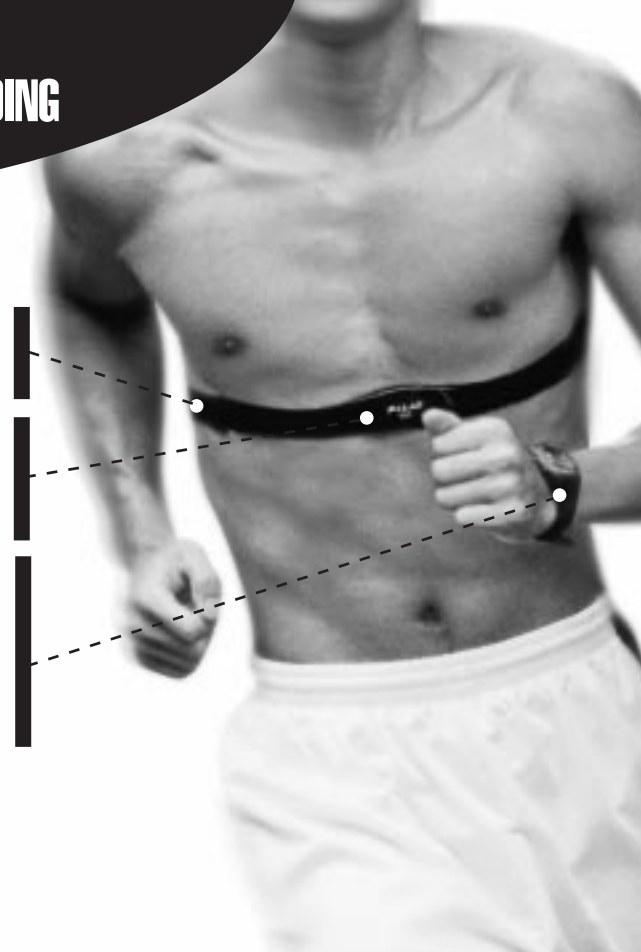
A. GETTING GOING

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 cycling data during exercise. Enter your personal settings into the receiver and analyse the exercise files after you're done.



Buttons and their functions

- Signal/ Light** Turns the beep on or off.
Turns the backlight on.
- 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/
LIGHT

 STOP

OK



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 you 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.



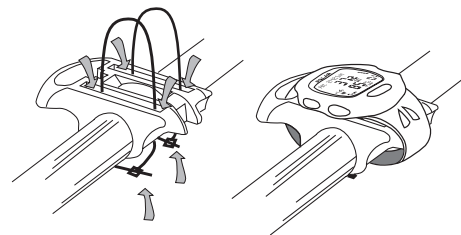
Up Moves to the following mode. Increases the selected value.

Reset Resets the heart rate monitor.

Down Returns to the previous mode. Decreases the selected value.

How to prepare the wrist receiver

1. 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.
2. 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 Setting the watch) and personal user settings (see section User information settings).
3. Your heart rate monitor has various functions that you can use according to your personal training needs. For more information, see section Modes and their functions. You can either manually enter the settings by pressing the receiver buttons or you can define your settings Polar Precision Performance software, after which the data should be transferred from your computer to the wrist receiver.
4. 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™.

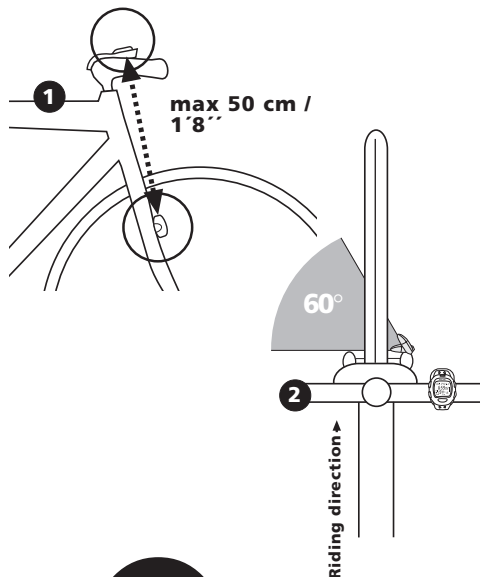


Installing the Polar Bike Mount

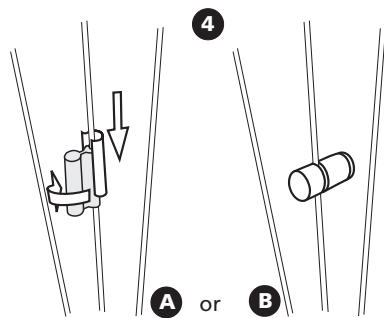
Use cable ties to secure the bike mount snugly on the rubber pad. Attach the receiver by securing the wrist strap.

Installing the Polar Speed Sensor™

The Polar Speed Sensor measures speed and distance when cycling.



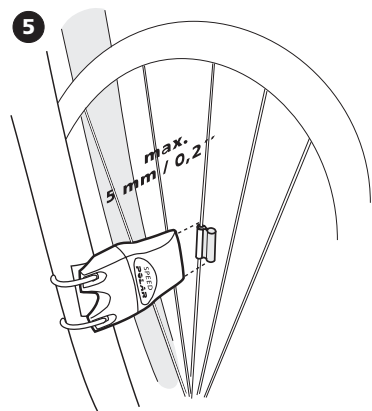
1. Check the front side of the front fork to find a suitable place for the speed sensor. The sensor should be attached less than 50 cm / 1'8" from the mounted wrist receiver. The smaller the distance the better. Clean and dry the area underneath the rubber pad before you attach it to the front fork.
2. Place the sensor in the position as in illustration 2. Then adjust the sensor towards the wheel as much as possible.
3. Pass the cable ties through the sensor holes and loosely adjust the ties. Do not tighten fully yet. If the cable ties are too short for your bicycle, put two of them together to make them longer.



4. There are two spoke magnet options. **You only need to install one of them.** Check which of the magnets fits the spoke of your bike best. One (A) is installed by rotating it around the spoke before putting the metal cover on, another (B) by tightening the screw. The magnet must be facing the speed sensor.

5. Fine-tune the positioning of both the magnet and the sensor so that the magnet passes the sensor closely but does not touch it. The maximum distance between the speed sensor and the spoke magnet should be 5 mm/ 0.2". Once positioned correctly, tighten the cable ties securely and cut off any excess cable tie ends.

! Your safety is important to us. While riding your bike, please keep your eyes on the road to prevent possible accidents and injury. Check that you can turn the handle bar normally and cable wires for brakes or gearing do not catch on the sensor. Check also that the sensor does not disturb pedalling or the use of brakes or gearing.



How to put the transmitter on

1. Attach the transmitter to the elastic strap.
2. Adjust the strap length to fit snugly and comfortably. Secure the strap around your chest, just below the chest muscles, and buckle it.
3. Lift the transmitter off your chest and **moisten the grooved electrode areas** on the back.
4. 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

1. Begin with the display that shows the time of day.
2. Keep the wrist receiver within 1 metre/ 3 feet of your transmitter.
3. 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.



4. 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.
5. 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.

How to stop measuring your heart rate

1. 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 elasticity 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

Your receiver has six main modes: Time of day, Exercise, File, Options, Fitness test and Connection.

1. TIME OF DAY

You can use your Polar heart rate monitor as an ordinary watch with date, weekday indicator and alarm function.

You can also change between two different countries' time zones. In addition, the following functions can be uploaded from a computer:

- 7 reminders with alarm sounds
- your personal logo, user number or user name

2. EXERCISE

In the Exercise mode, you measure your heart rate and exercise information is recorded in the File mode. 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 detailed heart rate and cycling information 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
- current, average and maximum speed
- trip distance
- altitude
- metres/ feet ascended
- temperature
- cadence*
- Power output*
- left right pedalling balance*
- pedalling index*

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 functions.

3. FILE

Your receiver stores exercise information in 99 exercise files:

- 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)
- total distance of the exercise
- average and maximum speed
- average and maximum cadence*
- average, maximum and minimum altitude
- average, maximum and minimum temperature
- metres/ feet ascended
- output power in watts*
- pedalling index*
- left right pedalling balance*
- heart rate limits used during the exercise

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

- time spent in, above and below your target zones during exercise
- OwnCal calorie expenditure
- cumulative calorie expenditure
- cumulative exercise time
- cumulative riding time
- odometer
- your interval training information: warm-up, interval and cool-down phases
- your lap information: best lap time; lap and split times; current, average and maximum heart rate for each lap; cycling information at the end of the lap
- heart rate and cycling samples saved at the preset recording rate

In addition to an exercise file, your cumulative and maximum exercise values are updated in records file.

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

Memory settings: Set the recording rate of your heart rate of 5 seconds, 15 seconds or 1 minute

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

Bicycle feature settings: bike 1 or 2 on/off, wheel size, cadence* on/off, output power* on/off, autostart 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, date, reminders on/off

5. FITNESS TEST

In this mode you can:

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

6. CONNECTION

In this mode you can:

- upload your receiver settings from your computer with Polar Precision Performance version 3 or later
- download recorded exercise information to your computer for detailed analysis with Polar Precision Performance version 3 or later

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

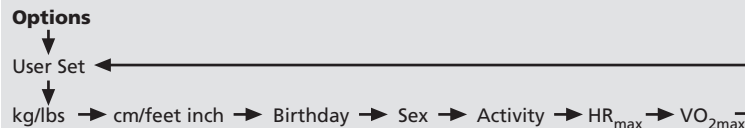
B. HOW TO ENTER SETTINGS



This section describes how to manually enter settings by pressing the receiver buttons. However, Polar heart rate monitor offers you another and faster way as well: prepare your settings with Polar Precision Performance software and upload them to your receiver from your computer. See the “Uploading settings from computer” chapter.



User information settings



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

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 (kg or lbs)

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

Height (cm or ft/ inch)

6. Scroll up or down to adjust your height. Press OK.

Date of birth (Birthday)

7. Scroll up or down to adjust your day of birth. Press OK.
8. Month appears. Scroll up or down to select your month of birth. Press OK.
9. Year appears. Scroll up or down to adjust the year of birth. Press OK.

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

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. E.g. you walk only for pleasure or occasionally exercise sufficiently to cause heavy breathing or perspiration. |
| Middle | You participate regularly in recreational sports. E.g. you cycle 15-30 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. E.g. you cycle 30-60 km per week or spend 2-3 hours per week in comparable physical activity. |

- | | |
|-----|--|
| Top | You participate regularly in heavy physical exercise at least 5 times a week. E.g. 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 Fitness Test mode after having carried out the Polar Fitness Test

To continue your settings, press the stop button or 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:

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

Additionally, you can follow calories of your exercise session, percentage of your maximum heart rate and cycling information, 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 your exercise according to the settings you have made. You can also name the exercise sets e.g. 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.

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: manual, time-, heart-rate- or distance-based interval
- number of repeated interval phases
- heart rate limits 2 On/OFF
- recovery calculation On/OFF

Cool-down phase


- countdown timer 3 On/OFF
- heart rate limits 3 On/OFF

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. E.g. you cannot set timer 2 on if timer 1 is off.

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.

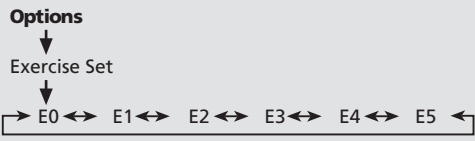
3. Press OK to start the exercise settings. BasicUse E0 or exercise set E1 - E5 is displayed.

4. Scroll up or down until the desired exercise type is displayed. Press OK.

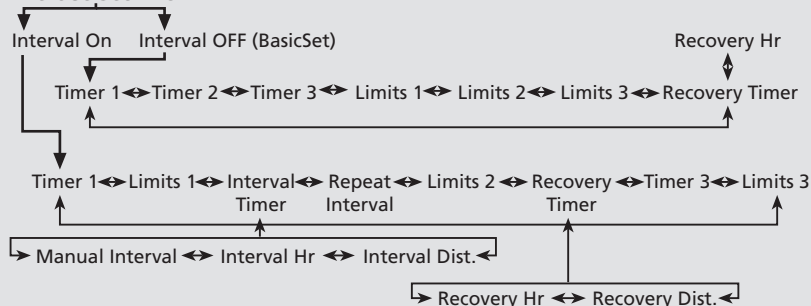
If you chose BasicUse (E0): to return to the Time of day display, press and hold the stop button and skip the rest of the exercise settings.

If you chose exercise set (E1-E5) Interval On/OFF is displayed.

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



Exercise Set 1 - 5



Setting timers

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

6. Scroll up or down until desired timer is displayed. Press OK to start setting the timer.

7. 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 are 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 Limits is displayed.

7. Press and hold the signal/light button to turn limits on or off.
Release.

Setting interval type

You can select four optional types of intervals:

- A. Time-based interval** Ends your interval when you have used the preset time.
- B. Heart-rate-based interval** Ends your interval as you reach the preset heart rate. When selecting heart-rate-based interval, recovery calculation must be set on. 
- C. Distance-based interval** Ends your interval as you reach the selected distance.
- D. 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.

6. Scroll up or down until Interval TIMER/ Hr/ DIST/ MANUAL is displayed. Press OK to start setting the interval type. TIMER/ Hr/ DIST/ MANUAL is flashing.
7. 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

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

Or

B. Heart-rate-based interval

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

Or

C. Distance-based interval

8. Scroll up or down to adjust kilometres. Press OK.
9. Scroll up or down to adjust hundreds of metres. Press OK. Interval DIST appears.

Units 2: Adjustable units are miles and feet.

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  appears. Press OK.

Setting recovery calculation

You can select 3 optional types of recoveries:

- 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.
- C.** Distance-based recovery Ends your recovery as you reach the selected distance.

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

6. Scroll up or down until Recovery TIMER/ Hr/ DIST is displayed.
 7. Press OK to start setting recovery calculation on or off.
On/OFF is flashing.
 8. Scroll up or down to turn the recovery calculation on or off. Press OK.
OFF: skip steps 9-11.
On: TIMER/ Hr/ DIST is flashing.
 9. Scroll up or down to select recovery timer, heart rate or distance.
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.
- Or**
- B.** RecoHr is displayed.
10. Scroll up or down to adjust the value. Press OK. Recovery Hr appears.
- Or**

C. Rec. Dist is displayed.

10. Scroll up or down to adjust kilometres.
Press OK.
11. Scroll up or down to adjust hundreds of metres. Press OK. Recovery DIST appears.

Units 2: Adjustable units are miles and feet.

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

Naming exercise sets

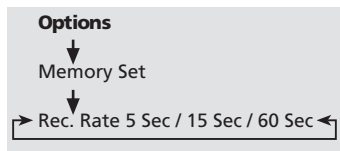
You can name the exercises with seven letters, numbers or punctual marks. The available digits are: 0-9, space, A-Z, a-z, - % / () * + : ?.

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 or to return to the Time of day display, press and hold the stop button.

Setting recording rate

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 **MEMORY SET** is displayed.
4. Press OK to start the memory settings. **Rec. Rate** is displayed.
5. Scroll up or down to select the desired recording rate. As you change the recording rate you can see the memory there is left in the lower row. Press OK.



The recording time of the receiver depends on the selected recording rate (5 s, 15 s, or 60 s). When the memory is full, you can continue exercising but the exercise is no longer recorded.

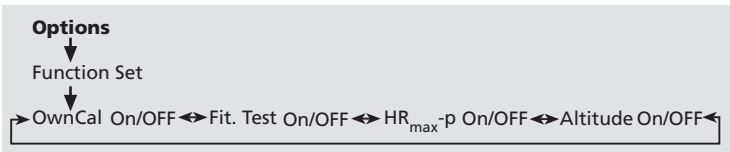
The following table shows the maximum exercise times for each recording rate.

Altitude	Speed	Cadence	Power	Rec. Rate 5s	Rec. Rate 15s	Rec. Rate 60s
On	On	On	On	4 h 57 min	14 h 53 min	59 h 34 min
On	On	On	OFF	8 h 56 min	26 h 48 min	99 h 59 min
On	On	OFF	On	5 h 35 min	16 h 45 min	67 h 01 min
On	On	OFF	OFF	11 h 10 min	33 h 31 min	99 h 59 min
On	OFF	OFF	OFF	14 h 53 min	44 h 41 min	99 h 59 min
OFF	On	On	On	5 h 35 min	16 h 45 min	67 h 02 min
OFF	On	On	OFF	11 h 10 min	33 h 31 min	99 h 59 min
OFF	On	OFF	On	6 h 23 min	19 h 09 min	76 h 37 min
OFF	On	OFF	OFF	14 h 53 min	44 h 41 min	99 h 59 min
OFF	OFF	OFF	OFF	44 h 42 min	99 h 59 min in one file and total 130 h	99 h 59 min in one file and total 520 h

The use of exercise sets and lap recording reduces the maximum exercise times.

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

Turning functions on/off



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 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.

For getting 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 HR_{max-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.

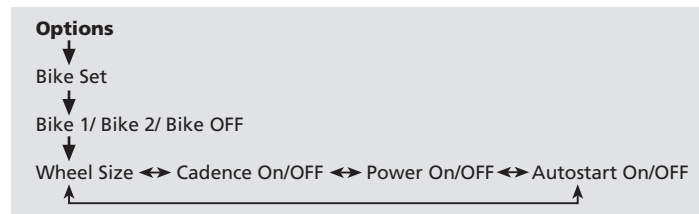
Altitude and thermometer on/off

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

5. Scroll up or down until Altitude is displayed.
6. Press OK to start setting the altitude measurement and thermometer. On/OFF starts to flash.
7. Scroll up or down to set the altitude on or off. Press OK.
If you turned Altitude off, skip the rest of the altitude settings.
8. If you turned Altitude on, "Wait..." appears for a few seconds.
9. Altitude and a flashing number appear. Start adjusting the starting point altitude. Adjustable units of 1/ 2 can be changed by pressing and holding the signal/light button.
Scroll up or down until the desired altitude is displayed. Press OK.
It is recommended that you reset the altitude whenever a reliable reference is available.

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

Bicycle feature settings



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 BIKE SET is displayed.
4. Press OK to start the Bike settings.
5. Choose to start setting the Bike 1 or 2 or turn the bike features off.
Scroll up or down until desired option is displayed. Press OK. Wheel is displayed. If you selected bike features off skip the rest of the bike settings.

You can set two bike preferences for the receiver. Make the settings ready for both bikes; when you start exercising, just select bike 1 or 2. As you take the bike settings 1 or 2 in use speed and distance measuring functions are always on. Wheel size settings are a prerequisite for cycling information.

Adjusting the wheel size (Wheel)

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

6. Start with the display showing Wheel.
7. Press OK to start setting the wheel size.

8. Scroll up or down to adjust the wheel size. Press OK.
You have the following alternatives to find out the wheel size of your bike:

METHOD 1.

Look at the wheel of your bike and find the wheel diameter printed on it. On the chart below, find your wheel diameter in inches or in ERTRO reading and match it to the wheel size in millimetres on the right.

ERTRO	Wheel size diameter (inches)	Wheel size setting (mm)
30-559	26x1.25	1953
35-559	26x1.5	1985
44-559	26x1.75	2030
47-559	26x1.95	2050
	26x1 1/8 Tubular	1970
	650-20C	1952
622-20	700x20C	2086
622-23	700x23C	2096
622-25	700x25C	2105
	700C Tubular	2130
	28 (700 B)	2237

METHOD 2.

Mark the tread of the front tire with a line and roll the tire perpendicular to the ground. You can also use the valve as a mark. Mark a line on the ground. Move your bike on a flat surface straight ahead for one complete wheel rotation. Check that the tire is perpendicular to the ground. Draw another line on the ground exactly where the mark on the front tire touches the ground.

Measure the distance between the two lines on the ground. _____ mm

Subtract 4 mm to account for your weight on the bike to get your wheel circumference. - 4 mm

This is the value you must set on the meter. _____ mm

! The wheel size is always indicated in millimetres as this is more accurate.
Resetting the monitor enters the default values.

Cadence* on/off

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

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

Power* on/off

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

6. Scroll up or down until Power is displayed.
7. Press OK to start setting the Power Output. On/OFF starts to flash.
8. Scroll up or down to set Power Output on or off. Press OK.
OFF: Skip the rest of the Power Output settings.
9. C. weight is displayed. Scroll up or down to adjust the chain weight. Press OK.
10. C. length is displayed. Scroll up or down to adjust the chain length.
Press OK.
11. S. length is displayed. Scroll up or down to adjust the span length.
Press OK.

For more detailed information, see the Polar Power Output™ manual.

Autostart on/off (AutoStrt)

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

6. Scroll up or down until AutoStrt is displayed.
7. Press OK to start setting the autostart. On/OFF starts to flash.
8. Scroll up or down to set the autostart on or off. Press OK.

Autostart means that the receiver automatically starts or stops the exercise recording, as you start or stop moving your bicycle. To continue your settings, press the stop button or to return to the Time of day display, press and hold the stop button.

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

Naming bike 1 and bike 2

You can name the bikes with four letters, numbers or marks.

The number in the right corner indicates, which bike settings are in use.

(b0=Bike OFF, b1=Bike 1, b2=Bike 2)

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 BIKE SET is displayed.
4. Press OK to start the bike settings.
5. Scroll up or down until Bike 1 or 2 is displayed.
6. Press and hold signal/light button. Adjustable letter is flashing.
7. Scroll up or down to select the desired mark. Press OK.
8. Repeat previous step until you have chosen all four letters.

To continue your settings, press the stop button or 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.
2. Press OK to enter the Options mode. EXERCISE SET is displayed.
3. Scroll up or down until MONITOR SET is displayed.
4. Press OK to start the monitor settings. Sound is displayed.

Options

↓
Monitor Set

↓
Sound On/OFF ↔ Units 1/2 ↔ Help On/OFF

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.

Activity/button sound consists of the button sound and in the Measure and Exercise modes the following activity sounds: start, stop and lap recording, phase start, interval phase end and recovery calculation end sounds. It does not consist of heart rate zone alarms, watch alarm or fitness test alarm.

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 the unit which best suits you. Press OK.

The units settings affect the following features:

	Units 1:	Units 2:
User information	kg, cm	lbs, feet
Date of birth	day-month-year	month-day-year
Speed	km/h	mph
Distance	km, hundreds of metres	miles, feet
Altitude	metres	feet
Metres ascended	metres	feet
Temperature	°C	°F
Wheel size	mm	mm (Note!)
Power	Chain weight	g
	Chain length	mm
	Span length	mm

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. During the exercise, when you are changing the middle row information, you can see the name of the function for few seconds. The names are also shown as you recall information on lap and exercise samples in the File mode.

To continue your settings, press the stop button or 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.
2. Press OK to enter the Options mode. EXERCISE SET is displayed.
3. Scroll up or down until WATCH SET is displayed.
4. Press OK to start the watch settings. ALARM is displayed.

Options



Setting alarm

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

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

OFF: Skip steps 7- 9.

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.
7. Day appears. Scroll up or down to select the desired value. Press OK.
8. Month appears. Scroll up or down to select the desired value. Press OK.
9. Year digits start to flash. Scroll up or down to select the year. Press OK.

12h time mode:
month - day - year

Turning reminders on/off

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

5. Scroll up or down until REMIND is displayed.
6. Press OK to start setting the reminders.
7. Scroll up or down until desired reminder is displayed. The number of the reminder is displayed in the corner of the display.
8. Press OK. On/OFF starts to flash.
9. Scroll up or down to set the reminder on or off. Press OK.

You can upload 7 reminders, each including time and name, to your wrist receiver from Polar Precision Performance software.

The reminder sounds an alarm only when time of day is displayed. When the reminder alarm comes on, it will sound for 15 seconds or you can turn it off by pressing any of the buttons except the signal/light button. Erase the reminder text by pressing any of buttons except the signal/light button.

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

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 couple 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 couple of seconds to enter to watch setting loop. 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.
- as you set an Interval Training Set on distance-based interval or recovery.
- as you set the altitude reference point.

Press and hold the signal/light button until the units are swapped. Release the button.

Swap date, user ID number, user name and logo

You are able to set a user ID number, user name and logo by Polar Precision Performance software. These settings are shown on the upper row of the Time of day display. You can swap between the user ID, user name, logo and date by pressing and holding the up button.

C. EXERCISE

Time of day



Measure mode



Exercise recording mode

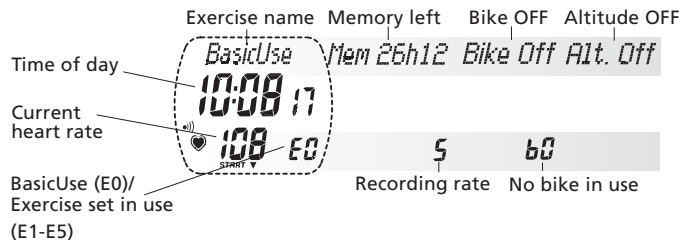
You can use two modes in your exercise: Measure or Exercise mode. In the Measure mode you can see your heart rate but your exercise is not recorded. In the Exercise mode your exercise is recorded and stopwatch and other calculations are started.

Measure mode

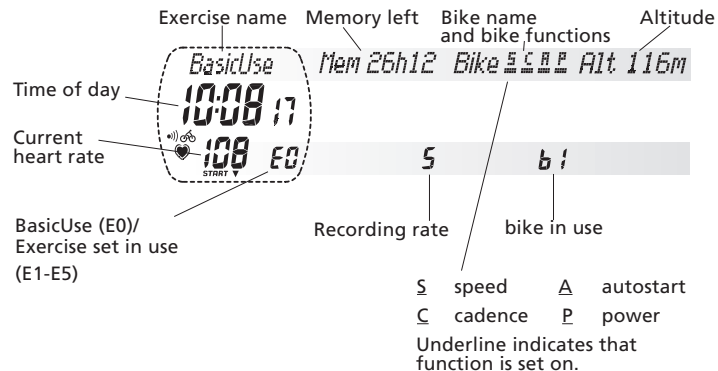
1. Wear the transmitter and the wrist receiver as described in "Easy start" section.
2. To make sure that the code search will be successful:
 - Keep the wrist receiver within 1 metre/ 3 feet of your transmitter.
 - Check that you are not near to other people with heart rate monitors, high voltage power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

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

The following displays start to alternate, if you have no bike or altitude settings in use, as you enter the Measure mode:



The following displays start to alternate, if you have bike 1 or 2 and altitude settings on, as you enter the Measure mode.



- If you want to record cycling information, **keep the bike still** until your heart rate appears on the display. Press OK to start recording your exercise.

Or

If you want to record cycling information without heart rate measurement: after the heart rate reading 00 appears press OK and start cycling.

Autostart for recording a cycling exercise

If you start from the Time of day display, press OK briefly to enter the Measure mode. Your exercise recording automatically starts/ pauses as you start/ stop cycling.

If you want to record cycling information only, start cycling after the heart rate reading 00 appears on the display. If you want to record both cycling and heart rate information **keep the bike still** until your heart rate appears on the display.

Exercise recording mode

If you are starting from the Time of day display, press and hold OK.

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

If your preset exercise requires cycling settings, Set Bike is displayed for a few seconds. In order to start the exercise set you need to select bike 1 or 2 by pressing and holding the down button until the desired set is displayed. The choice is displayed in the lower right corner:

b0= bike off

b1= bike 1 settings on


b2= bike 2 settings on

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.




In the beginning of your exercise, 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

- ! Note that you can not use the alarm when Bicycle functions  are on.
- ! Note that trip distance is reset by pressing and holding signal/light button. Therefore Trip should not be displayed in the upper row when turning 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 for 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.

First

Lap time
Average heart
rate of the lap
Number of
the lap



Then

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 on the display. 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.

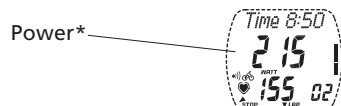
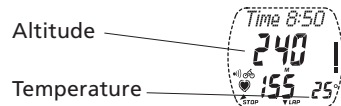
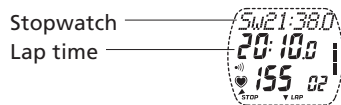
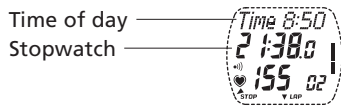
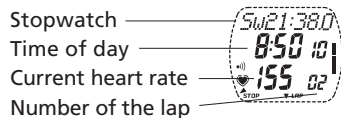
The exercise recording, stopwatch and other calculations are paused. To continue them, press OK. Or, to return to the Time of day display, press and hold the stop button.



The receiver automatically returns to the Time of day display within 30 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 six display options, which you can swap between by pressing the down button. Once you have configured the display options, the receiver saves the settings. If the Help function is on, the name of the selected function appears for a few seconds.



! Remember to attach your receiver to the Polar Bike mount in order to record the correct temperature.

When you have set your Interval Training Set on, you will have one extra display. You can only change the middle and lower rows for this display.



*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

See the alternative phase displays from “Exercising with Interval Training Set” section. You can also choose which information you want to be on the three display rows.



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

Select the middle row information

1. 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

2. Press the up button to select from the following:
Time of day (Time), stopwatch (Sw), lap time (Lp),
or if you have turned the functions on select from:
calorie expenditure (Cal), trip (Trip), current speed (Spd), average speed (Avg speed), maximum speed (Max speed), cadence* (Cad), altitude (Alt), ascended metres (Asc), output power* (Pwr), left right pedalling balance* (LRB), pedalling index* (PI).

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

3. 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.
3. 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 previous exercise file is deleted.

Starting an exercise set

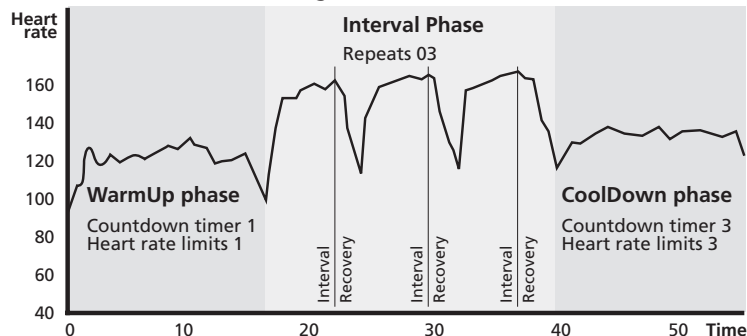
1. Start from the Time of day display. Press OK to enter the Measure mode.
2. If you want to swap the preset exercise set, press and hold the up button until the exercise set (E1-E5) is swapped. Release. Repeat until desired exercise set is displayed.
3. To start exercising and recording the preset exercise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

Structure of an interval training exercise:



Warm-up phase

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, **C.** heart rate-based or
- D.** distance-based interval.

A. Manual interval.



Number of set intervals.

Current interval number.

Interval time.

Heart rate information.

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

Or

B. Time-based interval.



Countdown timer 2.

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

Or

C. Heart-rate-based Interval.



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

Or

D. Distance-based interval.



Countdown distance.

Your interval will end as you reach the preset distance.

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 or **C.** distance-based recovery calculation.



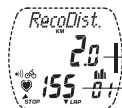
A. Time-based recovery.
Recovery countdown timer.
Current heart rate.

Or



B. Heart-rate-based recovery.
The difference between the preset recovery heart rate and current heart rate.
Current heart rate.

Or



C. Distance-based recovery.
Recovery countdown distance.
Current heart rate.

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

At the end of recovery



A. and B.
Recovery duration.
Drop in your heart rate.

Or

C.

Recovery distance.



Cool-down phase

1. *First*

Preset heart rate limits 3 (if set on).

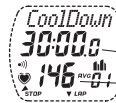


2. *Then*

Countdown timer 3.

Heart rate information.

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 a phase.



3. *At the end of cool-down phase*

Cool-down phase duration.

Average heart rate of the cool-down phase.



After your cool-down phase has ended the receiver automatically continues recording exercise with BasicUse mode.

You can continue using the heart rate limits of the interval exercise in the BasicUse 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.

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 previous recovery information will be deleted.

Stopping the exercise

1. Press the stop button to pause the exercise.
2. 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

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.

Swap the bike setting (b0, b1 or b2)

Start from the Measure mode. Press and hold the down button until Bike 1 or 2 or Bike OFF is displayed. You can now start exercising with the chosen settings. For more information about cycling measurement, see the “Measure mode” and “Swapping the displayed exercise information” sections.

Resetting the trip distance

Start from the Measure or Exercise mode. Scroll up until Trip is displayed. Press and hold the signal/ light button until the trip reading is zero. Release.

Returning to the manually set altitude

Start from the Measure mode. Scroll down until altitude is displayed in the middle row. Press and hold the signal/light button until the previous manually set altitude is displayed.

If the manually set altitude reference value deviates over ± 610 m/ ± 2000 ft from the altitude calculated by the receiver, Failed appears and the measured altitude appears. Set the reference altitude from the Options mode. As you start adjusting the reference altitude, the receiver suggests a measured altitude for you instead of the previously set altitude.

Restarting the interval or recovery calculation

In the Exercise mode press the stop button to pause the interval or recovery calculation.

Start resetting by pressing and holding the down button. To restart the same calculation press the OK button or 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. E.g. 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.

Heart touch function

The heart touch function is activated as you bring the wrist receiver near the transmitter's Polar logo.

You have three alternatives for the heart touch function. To select heart touch display, use your Polar Precision Performance software:

- Checking the current heart rate limits
- Swapping the display options
- Storing lap time

During the heart touch, the backlight is on for a couple of seconds, if you have already used the backlight during the exercise.

D. HOW TO RECALL TRAINING INFORMATION



The receiver starts saving exercise information to a file as you start the stopwatch. You can recall the information in the File mode. In the File mode there are up to 99 exercise files and a records file, which keeps track of the cumulative and maximum exercise values.



Your first file is F1, then F2 and so on, until you have recorded maximum 99 exercise files. The bigger the file number the more recent it is.

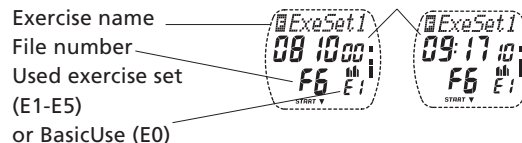


Some information alternates on the display automatically. You can make the alternation faster by pressing the OK button e.g. the target heart rate zone information.

Exercise file

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

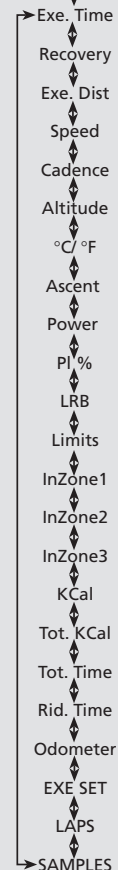
Starting date and time alternate on the display.



3. Scroll up or down until the desired file is displayed.
4. Press OK to start recalling an exercise 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 to the Time of day display, wherever you are in the File recalling cycle.

File (F1-F99)





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 file, scroll up or down 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.

Exercise distance (Exe. Dist.)

You can see the exercised distance.

Speed information (Spd. Avg/ Max)

Average and maximum speed of the exercise alternate.

Cadence information* (Cad. Avg/ Max)

Average and maximum cadence of the exercise alternate.

Altitude (Alt. Avg/ Max/ Min)

Average, maximum and minimum altitude of the exercise alternate.

Temperature (°C or °F Avg/ Max/ Min)

Average, maximum and minimum temperature of the exercise alternate.

Ascended metres/feet (Ascent)

You can see the ascended metres/ feet of the exercise.

Power* (Pwr Avg/ Max)

Average and maximum output power of the exercise alternate.

Pedalling index* (PI Avg/Max)

Average and maximum pedalling index of the exercise alternate.

Left right pedalling balance* (LRB Avg)

You can see the average balance between left and right foot pedalling.

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.

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

Calorie expenditure (KCal)

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

Cumulative calorie count (Tot. KCal)

You will have a count for cumulative calories expended during several exercise sessions starting from the previous resetting of the value in records file. This function allows you to follow the calorie count as a gauge of effective exercise e.g. 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 of the value in records file. It allows you to follow the exercise time count as a gauge of amount of exercise e.g. 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.

Cumulative riding time (Rid. Time)

You will have a count for cumulative riding time expended during several exercise sessions starting from the previous resetting of the value in records file.

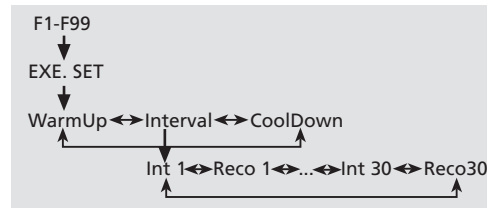
Odometer

Measures cumulative total distance of several exercise sessions starting from the previous resetting of the value in records file.

Interval Training information (EXE. SET)

Start with the display showing EXE. SET.

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



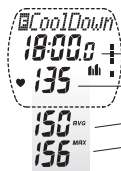
Warm-up phase

- Warm-up duration.
- The heart rate at the end of the warm-up, average and maximum heart rates of your warm-up phase.



Interval phase

- Interval phase duration.
- Average heart rate of intervals and recoveries.



Cool-down phase

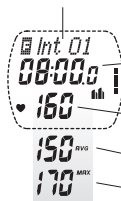
- Duration of the cool-down.
- The heart rate at the end of the cool-down, average and maximum heart rates of the cool-down phase.

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

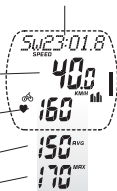
Interval information

Interval number.

Split time of the interval



- Interval duration.
- Speed at the end of an interval (If bike 1/2 was on).
- The heart rate at the end of the interval, average and maximum heart rates of the selected interval.



Recovery information



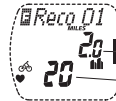
- Time-based recovery.
- Recovery duration.
- Drop in your heart rate.

Or



- Heart-rate-based recovery.
- Time it took reach the preset heart rate reading.
- Drop in your heart rate.

Or



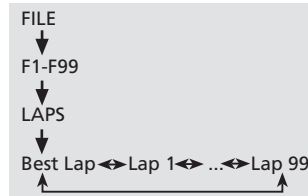
- Distance-based recovery.
- Recovery distance.
- Drop in your heart rate.

- To continue recalling, e. g. , 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 the number of recorded laps.

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



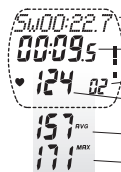


Best Lap

Shortest lap time.

The number of the best lap.

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



Laps

Split time.

Lap time.

Lap number.

The heart rate at the end of the lap,

average and

maximum heart rates of the lap.

In the upper row, the split time alternates with the help texts if the Help function is turned on. You can check the following detailed lap information in the middle row by pressing the OK button repeatedly:

- lap time (Lap Time),
- speed at the end of the lap (Speed),
- cadence* at the end of the lap (Cadence),
- altitude at the end of the lap (Altitude),
- ascended metres at the end of the lap (Ascent),
- power* at the end of the lap (Power),

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

- left right pedalling balance at the end of the lap* (LRB),
- pedalling index* (PI %),
- ridden distance at the end of the lap (Distance),
- temperature at the end of the lap (°C/ °F).

Press the stop button to exit the LAPS display.

Press and hold stop to return to the Time of day display.

Recorded samples

Check the detailed information of the exercise in the sample file.

Start with the display showing SAMPLES and the number of recorded samples.



1. Press OK to start recalling the samples.

The sample number, heart rate and time when the sample was recorded are displayed. In the upper row the sample number alternates with the help texts.

- The following detailed sample information is shown one by one as you press OK repeatedly: stopwatch (Stopwatch), speed (Speed), cadence* (Cadence), altitude (Altitude), power* (Power), left right pedalling balance* (LRB), pedalling index* (PI %).
- Scroll up or down from one sample to another.
- Press and hold stop to return to the Time of day display.

Deleting a file

1. In the Time of day display scroll up or down until FILE is displayed.
2. Press OK to enter the File mode.
3. Scroll up or down until desired exercise file is displayed. Press and hold the signal/light button. DELETE FILE and file number are displayed.
4. Press OK. The receiver confirms if you want to delete a file (Are you sure).
5. Press OK to delete the selected file.
6. Press stop to exit the file. Wait appears. The receiver rearranges your file, which takes few seconds.
7. Repress stop to return to the Time of day display.

Deleting all files

1. In the Time of day display scroll up or down until FILE is displayed.
2. Press and hold the signal/light button. DELETE FILES is displayed.
3. Press OK. The receiver confirms if you want to delete all files (Are you sure).
4. Press OK to delete all exercise files.
5. Press stop to return to the Time of day display.

Records file

This file is updated each time your exercise is recorded to file.

1. In the Time of day display scroll up or down until FILE is displayed.
2. Press OK to enter the File mode.
3. Scroll up or down until Records is displayed.

4. Press OK to enter the records file. Tot. KCal is displayed.
You will have a count for cumulative calories expended during several exercise sessions.
5. Scroll up or down to see the following values:
 - cumulative exercise time (Tot. Time)
 - cumulative riding time (Rid. Time)
 - cumulative riding distance (Odometer)
 - maximum speed (Max Spd.)
 - maximum cadence* (Max Cad.)
 - maximum altitude (Max Alt.)
 - maximum power* (Max Pwr.)

You can now return to the Time of day display by pressing and holding the stop button, continue resetting your cumulative counts or return to your previous maximum value.

Resetting your cumulative counts to zero

Once you have reset the cumulative count you cannot retrieve it. Start with the display showing Tot. KCal, Tot. Time, Rid. Time or Odometer in the records file.

1. Press OK to start resetting the desired total count. Reset appears and the value starts to flash.
2. 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.

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

3. Press the stop button to exit the reset display.
Press and hold the stop button to return to the Time of day display.

Returning to your previous maximum value

Start with the display showing Max Spd, Max Cad*, Max Alt or Max Pwr* in the records file.

1. Press and hold the signal/light button to start returning to the previous value. Return OLd appears and the value starts to flash.
2. You can still cancel the reset by pressing the stop button. If you are sure you want to return to the previous value, press OK.
3. Press the stop button to exit the display.
Or, if you want to start resetting your maximum value to zero, press and hold the signal/light button. Reset VALUE starts to flash. Once your have reset the value you cannot retrieve it.
4. You can still cancel the reset by pressing the stop button. If you are sure you want to return to the previous value, press OK.
5. Press and hold the stop button to return to the Time of day display.

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

E. CONNECTION TO COMPUTER



There is two-way communication between the wrist receiver and a computer. Polar Precision Performance software offers an easy way to analyse training data. A training log makes it possible to plan future training. Wrist receiver settings are easy to upload from the software instead of entering them manually.

After preparing your settings you can upload options lock to ensure that your settings will not change. You must deactivate the options lock from the “user features” of your software.


Downloading training data to a computer

! For IR communication you need an IrDA port and Windows® 98 operating system or later in your computer.

If you do not have an IrDA port in your computer you need one of the following:

- A) an optional Polar IR Interface for RS 232 port and Windows® 95 operating system or later in your computer
- or
- B) an optional Polar IR Interface for USB port and Windows® 98 operating system or later in your computer.

Install the Polar Precision software (version 3 or later) first, then connect the optional Interface to the corresponding port of the computer before starting the software.

1. Start the software.
2. Scroll up or down until CONNECT is displayed in the receiver display. Point the infrared window of the receiver towards the infrared window of the computer or an optional Interface. The maximum infrared transfer distance is 20 cm/ 8" and the infrared transfer angle ± 15 degrees.
3. On the toolbar of the software, click on the heart rate monitor Connection icon  and hold the receiver steady. A new window "Infrared Connection" appears.
4. The receiver automatically starts to communicate with the software as Infrared appears. Follow the instructions on the computer screen to proceed with downloading exercise files or uploading heart rate monitor settings. The receiver automatically returns to the Time of day display after data transfer.

Uploading settings from computer

Your Polar heart rate monitor offers you the option of preparing your settings with Polar Precision Performance software. You are also able to set following functions with the software:

- a user ID, user name or logo for easier receiver recognition in multi-user situations

- the heart touch function to show the current heart rate limits, store a lap time or swap the display options during your exercise
- names and alarm times for 7 reminders
- options lock function on or off

You may upload settings from a computer to a wrist receiver either via IR communication or via audible Polar Uplink. For IR communication please see the previous chapter and for the Polar Uplink communication proceed as follows:

1. Start the software.
2. If the receiver is in the Time of day display scroll up or down until CONNECT is displayed.
3. Place the receiver less than 10 cm/ 4" from the loudspeaker.
4. Activate the heart rate monitor connection function of the software. Do not move the receiver during the data transfer.
5. The receiver automatically starts to upload the information as UpLink appears and you will hear a chirping sound while information is transferred to the receiver. The receiver automatically returns 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.

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

E. 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 capability 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.

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 couple of 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_{max-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 ($220 - \text{age}$). The age-based method provides a rough estimation and is thus not 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 exercise tends to decrease HR_{max} whereas reduced training tends to increase it. 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 (e.g. 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.

1. 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.
2. 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.

5. 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.
6. 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_{max} -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.
3. 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.

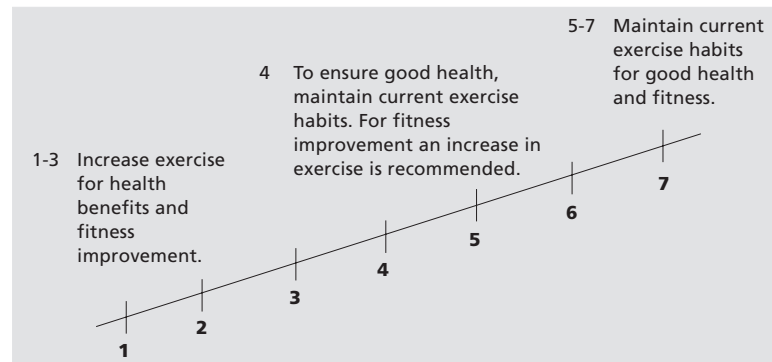
Fitness classes

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 out your current cardiovascular fitness classification, compared with those who are of the same age and gender.

	Age (years)	1 (very poor)	2 (poor)	3 (fair)	4 (average)	5 (good)	6 (very good)	7 (excellent)
MEN	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
WOMEN	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
	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 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.

For various fitness classes we recommend the following:



Top athletes typically score OwnIndex values above 70 (men) and 60 (women). As high values as 95 can be reached by Olympic level athletes. 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. Hard-handed handling may damage the electrodes.
- Keep your Polar heart rate monitor out of extreme cold and heat. The operating temperature is -10 °C to 50 °C/ 14 °F to 122 °F.
- Do not expose the Polar heart rate monitor to direct sunlight for extended periods, such as by leaving it in a car.

- Keep the air pressure channels (three openings on the wrist receiver backcover) clean to make sure that the altitude and temperature measurements work. Do not insert any objects into the openings.
- Do not immerse the speed sensor in water.
- Avoid hard hits to the speed sensor as these may cause damage.

Batteries

Transmitter

The estimated average battery life of the transmitter is 2500 hours of use. Contact your distributor/ dealer for a transmitter replacement. 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). Note also that excessive use of the backlight and the alarm signals will use the battery more rapidly. Do not open the Polar wrist receiver yourself. To ensure the water resistance properties and the use of qualified components, the wrist receiver battery should be replaced only by an authorised Polar Service Centre. At the same time a full periodic check of the Polar heart rate monitor will be done.

Battery Replacement for Speed Sensor

The estimated average battery life of the speed sensor is 2500 hours of use. We highly recommend you send the speed sensor to an authorised Polar Service Centre for battery replacement, where the unit is water-resistant tested after the battery has been replaced. However, if you prefer changing the battery yourself, please follow these instructions carefully:

Detach the sensor from your bicycle.

1. Open the sensor by removing the two small screws, counter-clockwise, with a small screwdriver.
2. Lift the case off carefully. Hold the sensor cover upwards so that the PCBA (printed circuit board assembled) stays in the case.
3. Remove the PCBA carefully.
4. Press the battery holder gently. Release a hook of the holder from the opposite side of the PCBA and lift the holder upwards. Remove the old battery.
5. Insert a new battery with the plus (+) side facing up and press the battery housing gently so that it is attached to the PCBA at all corners.
6. Put the PCBA back into place.
7. Check that the sealing ring stays in its groove. Replace the cover back.
8. Insert the two screws in their holes and tighten them gradually in turn.
9. Test the sensor by checking that it gives out an orange flash when the spoke magnet passes the speed sensor.
10. Do not throw the replaced battery away with normal waste; take it to a place where problem waste is handled.

Service

Should your Polar heart rate monitor need service, see Customer Care Charter to contact an authorised Polar Service Centre.

! Water resistance cannot be guaranteed after unauthorised service.

H. PRECAUTIONS

Using the Polar heart rate monitor in a water environment

Your Polar heart rate monitor is water resistant to 20 metres/ 60 feet.

Heart rate measurement in a water environment is technically demanding for the following reasons:

- Pool water with a high chlorine content and seawater may be very conductive and the electrodes of Polar transmitter may get short circuited and ECG signals cannot be detected 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 ECG signal.
- The ECG 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.

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:

1. 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.
4. 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.

Minimising 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.

If you are allergic to any substance that comes into contact with the skin, check the Polar heart rate monitor materials from the “Technical specifications” chapter. It is recommended that you wear the transmitter against your bare skin to ensure flawless operation. However, if you wish to wear the transmitter over a shirt, moisten the shirt well under the electrodes.

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.

! 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_{max}-p on.

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

1. 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.

3. 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.
4. Have you had a cardiac event which may have altered your ECG waveform? In this case consult your physician.

...heart symbol flashes irregularly?

1. Check that the wrist receiver is not further than 1 metre/ 3 feet 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 1 metre/ 3 feet.
5. Cardiac arrhythmia may cause irregular readings. In this case consult your physician.

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

Your training partner may have exactly the same code as you. In this case proceed as follows: Keep a distance from your training partner and continue your training session normally.

Or

1. Take the transmitter off your chest for 30 seconds. Keep a distance from your training partner.
2. 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.

1. 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 returns to the Time of day display.
2. Press any of the buttons once. Time of day is displayed.

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

We recommend having all service done by an authorised Polar Service Centre. This is especially necessary to ensure the warranty remains valid and is not affected by incorrect repair procedures done by an unauthorised 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.

...there are irregular speed, distance or heart rate readings?

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

...the speed reading is 00 or there is no speed reading on the display while cycling?

1. Check the correct position and distance of the speed sensor with the spoke magnet and the wrist receiver.
2. Check that you have set bike 1 or 2 on.
3. If the 00 reading appears irregularly, this may be due to temporary electromagnetic interference in your current surroundings.
4. If the 00 reading is constant, you may have exceeded 2500 riding hours and the battery of the speed sensor needs to be replaced.
5. If you are using the wireless Polar Speed Sensor, check that Power is turned off in the Options mode.

...inaccurate altitude readings?

The influence of a sudden temperature change (i.e., if you go outdoors in the winter) may cause temporarily inaccurate altitude readings. If the readings are constantly inaccurate, it may be caused by dirt blocking the air pressure channels (three openings on the backcover of the receiver). In this case, send the heart rate monitor to a Polar Service Centre.

...the data transfer from receiver to computer was unsuccessful?

1. Check the correct position of the wristwatch receiver with the infrared window of the computer or the optional interface.
2. Check that the surroundings are not too bright. This problem often occurs near windows.
3. Check that there is no obstruction between the infrared windows.

J. TECHNICAL SPECIFICATIONS

Polar heart rate monitor is designed to indicate the level of physiological strain and intensity in sports and exercise. Polar S720i/S710i also measures altitude and temperature in cycling. No other use is intended or implied. The altitude and temperature functions are not designed to be exclusive measuring equipment in aviation, climbing sports, water sports or their equivalent. 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:	-10 °C to +50 °C/ 14 °F to 122 °F
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 2354
Battery life:	Average 2 years (2h/ day, 7 days/ week)

Operating temperature: -10 °C to +50 °C/ 14 °F to 122 °F
 Water resistance: to 20 metres/ 60 feet
 Back cover material: Polycarbonate and glass fibre
 Wrist strap material: Polyurethane
 Wrist strap buckle and two openings on the back cover are 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 25 °C/ 77 °F temperature.
 Polar S720i/S710i is a Class 1 Laser Product.
 Accuracy of heart rate measurement: $\pm 1\%$ or ± 1 bpm, whichever larger, definition applies to steady state conditions.

Altitude and temperature measurement: The Polar S720i/S710i calculates altitude by using the standard average altitude in certain air pressures according to the ISO 2533. The air pressure is measured and the temperature is compensated every second. The receiver displays altitudes between - 448 m - 7590 m or between - 1600 ft - 24900 ft with at least a 1 m/ 5 ft resolution. The reference point's adjustable altitude range is ± 610 m/ 2000 ft from the last measured value.

Speed sensor

Operating temperature: -10 °C to +50 °C/ 14 °F to 122 °F
 Battery type: CR 2032
 Battery life: average 2500 hours of use
 Accuracy: $\pm 1\%$
 Splash proof

Default Settings

Time of day	24h
Alarm	OFF
Date of Birth	0
(adjustable range for year is 1921 – 2020)	
Sex	male
Weight	0 (kg)
Height	0 (cm)
Activity	Low
HR _{max}	220-age
VO _{2max}	
male	45
female	35
Bike 1/2	OFF
Wheel size for bike 1	2000
Wheel size for bike 2	2100
Cadence, autostart	OFF
Power	OFF
Activity sound	On
Units	1
Help	On
OwnCal	OFF
Fitness test	On
HR _{max} -p	OFF
Altitude	OFF
Interval function	OFF/ interval timer
Interval heart rate	160
Interval distance	2 km
Number of intervals	3

Timer 1, 2, 3	OFF/ 2 minutes
Limits 1, 2, 3	80/ 160
Recovery function	OFF/ recovery timer

Recovery heart rate	80
Recovery timer	1 min
Recovery distance	1 km
Heart touch function	Shows heart rate limits
Recording rate	5 s

Limit Values

Exercise time	99 h 59 min 59 s
Heart rate limits	30 - 240
Target zone time	99 h 59 min 59 s
Recovery time	99 min 59 s
Calories	99999 kcal
Cumulative calories	999999 kcal
Cumulative exercise time	9999 h
Riding time	9999 h
Odometer	999 999 km/ miles
Files recorded to memory	99
Laps recorded to memory	99
Interval phases recorded to memory	30
Temperature measurement	- 10 °C to +50 °C 14 °F to 122 °F

K. LIMITED POLAR WARRANTY

- Polar Electro Oy warrants to the original consumer/ purchaser of this heart rate monitor that the product will be free from defects in material or workmanship for one year from the date of purchase. **Please keep the receipt which is your proof of purchase!**
- Warranty does not cover receiver battery, damage due to misuse, abuse, accidents or non-compliance with the precautions; improper, maintenance, commercial use, cracked or broken cases.
- Warranty does not cover damage or consequential damage caused by service not authorised by Polar Electro Oy.
- During the warranty period the product will be either repaired or replaced at an authorised service centre free of charge.
- This warranty 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.
- Please check the packaging material for possible country-specific additional warranty.



This CE marking shows compliance of this product with Directive 93/42/EEC.

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L. POLAR DISCLAIMER

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

This product is protected by one or several of the following patents:
FI 88223, DE 4215549, FR 92.06120, GB 2257523, HK 113/1996, SG 9591671-4, US 5491474, FI 88972, DE 9219139.8, FR 92.09150, GB 2258587, HK 306/1996, SG 9592117-7, US 5486818, FI 96380, US 5611346, EP 665947, DE69414362, FI 68734, DE 3439238, GB 2149514, HK 812/1989, US 4625733, FI 100924, FI 100452, US 5840039, FI 4150, DE 20008882.3, FR 0006504, FI 4069, US 6272365, FR 9907823, GB 2339833, DE 29910633, FI 104463, US 6183422, FI 4157, DE 20008883.1, FR 0006778, WO 97/33512, GB 2326240, US 6199021.
Other patents pending.

Activity level: Your long-term physical activity level you need to assess in order to do the Polar Fitness Test.

Altitude and temperature: The altitude and temperature are measured by using an atmospheric pressure sensor. Air pressure changes constantly due to various weather conditions and therefore the calculated altitude of a certain spot may differ. Variation of high and low pressure or air conditioning can cause a change in the altitude reading. For example, a thunderstorm can cause a change of up to 80 mbars, which means a change of approximately 700 m/ 2000 ft in the calculated altitude. Therefore, it is recommended that you adjust the exact starting point altitude whenever a reliable reference; for example, a peak pointer or a map, is available. It is also recommended that you check the altitude of your house and other common starting points for training.

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.

Electrodes: The grooved areas of the transmitter, against the skin. Pick up the heart rate.

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.

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.

⏸ 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.

⚙ Options mode: indicates that you are setting the bike functions
Exercise mode: indicates that bike 1 or 2 is on.
File mode: indicates cycling information.

⏰ 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.

🏃: 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.

Alt.: Indicates altitude.

AM or PM: Are used in 12h Time mode. E.g. in 24h Time mode 13:00 means 1:00 PM.

AVG: Together with a reading indicates average heart rate.

b0: Indicates that you have no bike settings on.

b1: Indicates bike 1 setting.

b2: Indicates bike 2 setting.

BasicUse: Exercising without settings.

BestLap: Indicates the shortest lap time information.

Cad*: Indicates pedalling speed measured in rounds per minute (RPM).

Calibrate: You can return to the previous manually set reference point altitude.

CONNECT: Communication mode between wrist receiver and computer.

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.

E0: 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 recorded into the file.

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

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.

Lp: Indicates lap time.

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.

Limits1, 2, 3: Heart Rate Limits for Target Zones 1, 2 and 3.

LRB*: Indicates the left and right pedalling balance.

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.

Mem full: Appears on the display when the memory is full. You can continue your exercise and taking lap times but they won't be recorded into the file.

Odometer: Measures cumulative total distance of several exercise sessions.

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

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 loose 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 e.g. 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.

PI %, Pedalling index*: Helps you to analyse how evenly the power is distributed. The smoother the pedalling motion, the closer the figure is to the ideal 100 %. A pedalling index of 100 % means that power is applied evenly throughout the whole pedal revolution.

Pwr*: Indicates Power Output measurement in cycling.

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

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.

Spd: Indicates velocity.

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.

*Optional Polar Cadence Sensor or Polar Power Output Sensor required.

Index

12h/ 24h time mode	42	HR _{max} -p on/off	33
Activity/ button sound on/off	39	Illuminate the display	50, 63
Alarm settings	41	Interrupt an interval exercise phase	63
Altitude	46, 52, 67	Interrupt an interval or recovery calculation	63
Altitude on/off	33	Interval Training Set	23
Altitude reference point	33	Lap and split time storing	51, 71
Autostart on/off	37, 48	Measuring units settings	39
BasicSet exercise	23, 60	Modes and their functions	13
Bike 1/2/OFF	34	Naming bike 1 or 2	38
Buttons	6	Naming exercise sets	29
Cadence on/off	36	Odometer	68
Care and maintenance	88	OwnCal calorie expenditure	108
Code search	45	OwnCal on/off	32
Date settings	42	OwnIndex	80
Deleting a file	74	Pause an exercise	51
Display configuration	52	Power on/off	37
Download training data to a computer	77	Power output	53, 67
Easy start	8	Precautions	91
Exercise set	22	Predicted maximum heart rate	82
File	64	Recall training information	64
Fitness test	80	Recording rate settings	30
Fitness test on/off	32	Records file	74
Frequently asked questions	95	Recovery during BasicSet	61, 66
Functions during the exercise	48	Recovery during Interval training ...	58, 71
Heart rate limits checking	63, 67	Recovery settings	28
Heart rate limits on/off	25	Reminder on/off	43
Heart rate limits settings	25	Reset cumulative values	75
Heart touch function	63	Reset maximum values	76
Help on/off	40	Reset the stopwatch	54
How to enter settings	18		

Reset the trip distance	62
Return to the Time of day display	7
Selecting exercise type	22
Setting tips	44
Start an exercise set	54
Start cycling measurement	47
Start measuring your heart rate	11, 45
Stop an interval training session	60
Stop measuring your heart rate	12, 61
Swap the exercise type	61
Swap the heart rate limits	50
Swap the time zones 1/ 2	44
Technical specifications	99
Temperature.....	33, 52, 67
Time of day settings	42
Timer settings	25
Transmitter	5, 11
Update HR _{max} -p and OwnIndex to user information	85
Upload settings from computer	78
User information settings	19
Warranty	102
Wheel size	34
Zone alarm On/OFF	49

NOTE

[illegible]