

RANGE OF APPLICATION

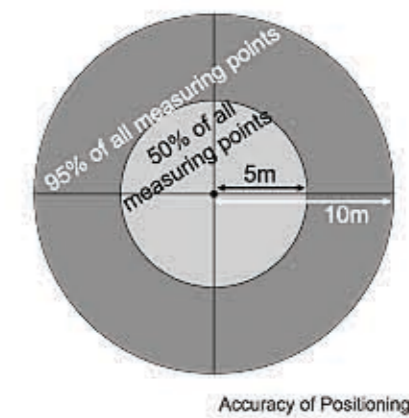
The GPS device is a navigation system. By using the 24 satellite network circling the earth, the position of user can be determined. This is possible at any time and everywhere in the world.

- The GPS device is designed for use as a global positioning system.
- The GPS device serves mainly for the measurement of distances, speed, altitude and navigation by using the US-American 24 satellite network.
- The device is not suitable for demanding applications such as paragliding, sky diving or soaring.
- The GPS device is designed for private use and not suitable for commercial use.

A use different other than described in this instruction manual is not advisable and can lead to damage or injury. We assume no liability for damages resulting from improper use. Further directions and explanations can be found in the instruction manual.

TECHNICAL DATA

Memory for GPS data: 350 hours
Accuracy GPS: 5 meters
The indication of the accuracy is derived from the so called 50% CEP (Circular Error Probability). This means that 50% of all measurements during very good satellite reception are within the stated radius of 5m. However this also means that half of the measured points are outside this radius. In this case 95% of all measured points is within a circle of twice the stated radius. This means that during very good satellite reception almost all points are within a circle of 10m radius. The determined position is in the worst case practically always accurate to about 10m.



GPS Reception

To use the GPS function of your GPS device optimally, it is imperative that the following instructions are followed. The GPS device is a global positioning system (GPS), which mainly serves for the measurement of distances, speed, altitude and navigation by using the US-American 24 satellite network. The United States of America operates this 24 satellite network and is responsible for its accuracy and maintenance.

Only during clear weather (clear sky) and suitable reception area - open area and clear view of the sky - can a faultless satellite reception be ensured.

Since satellite signals react very sensitively to outside influences, bad weather conditions (such as strong snowfall) as well as a disturbed reception area (GPS device is covered by clothing or other objects, high buildings or narrow valleys and gorges prevent reception) can seriously impair the performance and accuracy of the GPS device. The GPS reception in buildings is very reduced or impossible. Near windows, as well as in rooms with large windows and free sight of the sky, the position can be determined in certain circumstances, depending on the current position of the satellites. In closed rooms and in cells the GPS reception is practically always impossible.

LIGHT FUNCTION

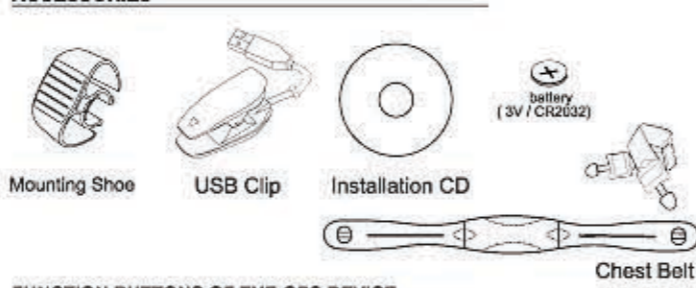
By pressing the **SATELLITE** button, the display is illuminated for about 3 seconds. Please note constant illumination of the display consumes more battery, which results in a shorter lifespan of the battery.

A battery charge is necessary, if the display gets weaker or it fades totally. If the battery is weak, the low battery symbol is displayed.

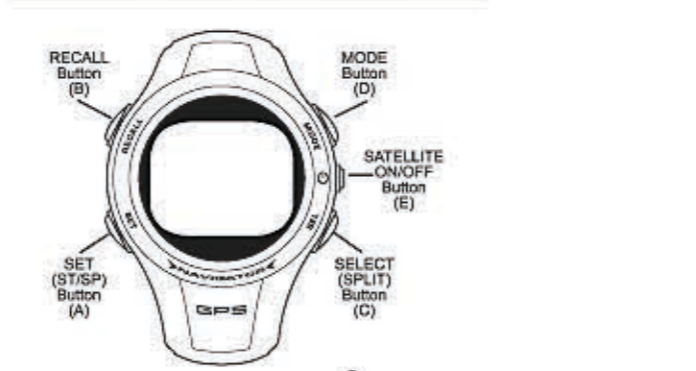
FAQ/TROUBLESHOOTING

No Satellite Reception
We recommend placing the GPS sport computer in an open area with free view of the sky some minutes before you start your training. Please see notes as stated in 'GPS Reception'.

ACCESSORIES



FUNCTION BUTTONS OF THE GPS DEVICE



CLEANING AND MAINTENANCE

Clean the GPS device only with a soft, moist, lint free cloth.
Do not use solvents, acidic or greasy cleaning agents.
Take care not to leave any water drops on the display of the GPS device. Water can cause permanent discolorations.
Do not expose the display to bright sunlight nor to ultraviolet radiation.
On the display of the GPS device is a transparent protective film.
You can remove this or leave it on the display to protect it from scratching.

Please take care that the GPS device has a clear view of the sky to ensure a faultless reception of the signals. Otherwise limitation of the performance and the accuracy could result. Take care that the GPS device is not covered by clothing. The reception could be distinctly reduced by this. You can read more about GPS reception in item 'GPS Reception'.

RETURN HOME

Before your journey, start the stopwatch to start recording. When you want to turn back, use Return Home function. Press B, then press C to show home location. Hold A to go back to the Return Home function and start navigation. Follow the arrow to go back.

Download route from computer works on Route Navigation mode only. Route record by watch can only use for return home function. If you want to use the route recorded by the watch in route navigation mode, you need to first download the route to the computer and re-install the route into the watch.

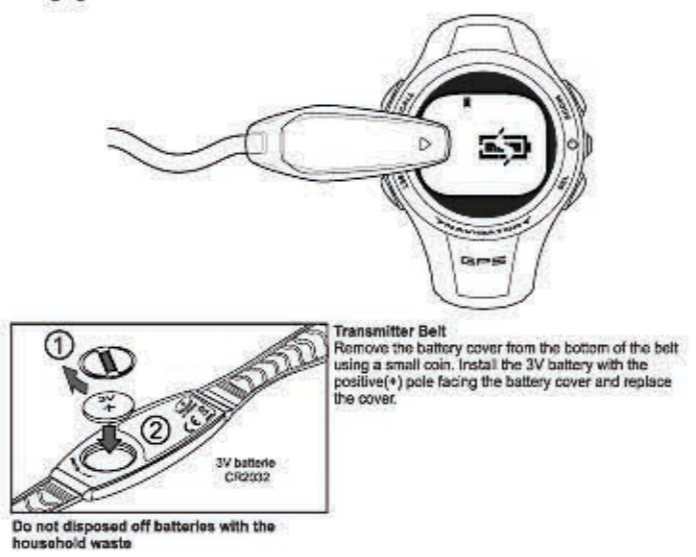
Display of Position:
When the GPS device is connected to the satellites, the latitude and longitude for every position is displayed. An N is added to the latitude (north of the equator) or S (south of the equator).
AW is added to the longitude (west of the prime meridian) or E (east of the prime meridian).
N = North S = southern latitude
E = East W = western longitude
W = West E = eastern longitude
The position is displayed in the common format degrees ° minutes ' seconds ".
1 degree is subdivided into 60 minutes, one minute is 60 seconds.
Example: N 48° 5' 14" E 14° 0' 45.0"
= 48 degrees 5 minutes 14.4 seconds northern latitude
14 degrees 0 minutes 45.0 seconds eastern longitude

Note: During Route Navigation or Return Home, you must stay in Route Navigation Submode otherwise the GPS device will not keep you tracking along the route.

Compass Mode (Functions only with Satellite Signal)

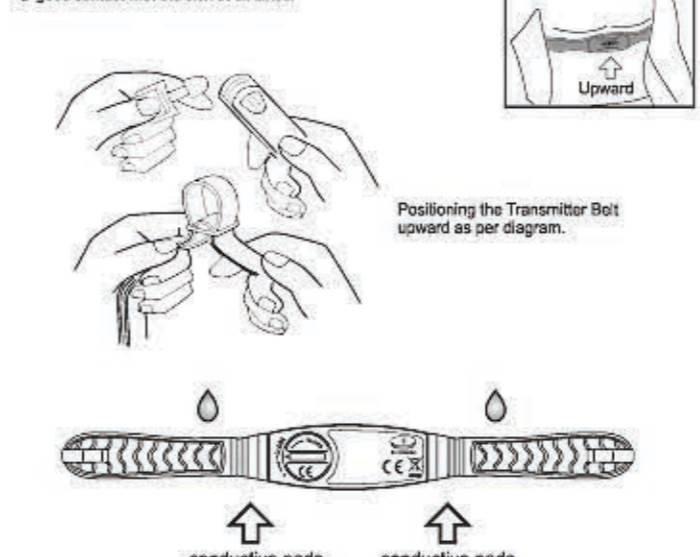
Press the **MODE** button until you are in the compass mode, as shown in the following readout:
The watch shows user's travelling direction.
Middle arrow shows Home direction.
The watch can memorize 16 point of interest (1 home location and 15 way points). To set way point:
At the point of interest, go to current location screen. Hold A to save as way point. Press B or C to select which icon to set flag 1...Flag 15 or home. Then Press A to confirm. It is not necessary to set point of interest from 1 to 15, the user can choose to set in any orders.

Recharging the watch
At the back of the watch there are four contacts. Clip the connecting cable (As shown in fig.1) to the watch case with the four pins on the cable matching the four contact on the case back. Plug the cable to the computer. Charging time is about 3 hours.

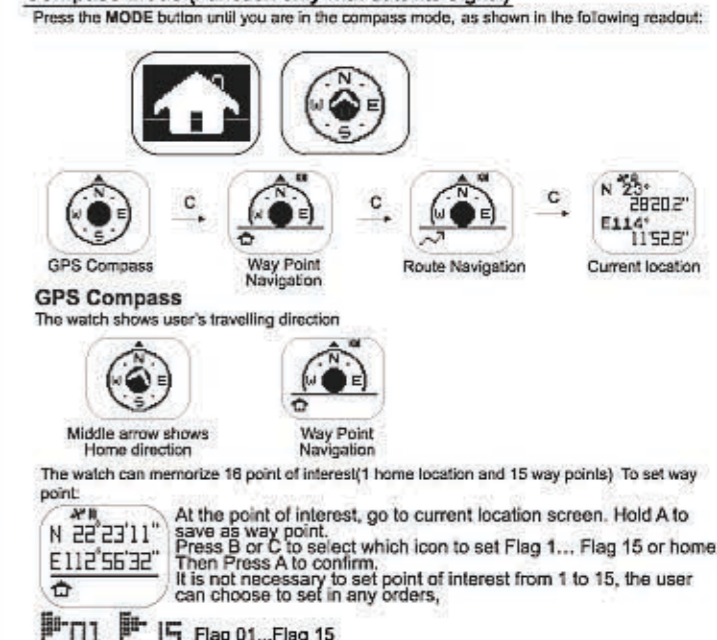


WEARING THE TRANSMITTER BELT

Adjust the elastic belt so that it fits tightly around your chest just below the pectoral muscles. Moisten the transmitter's conductive pads with saline or ECG gel (available at your local chemist) in order to ensure a good contact with the skin at all times.



Compass Mode (Function only with Satellite Signal)



Recording Data

Notice:
Please note that the GPS and pulse data are saved in the GPS device only during on going timekeeping.
You can change to all modes during timekeeping, the recording of GPS and pulse data continues until you stop the timekeeping in the stopwatch mode or the memory is full.

- Press the **STOP/SET** button to start timekeeping. During ongoing timekeeping the GPS and pulse data are recorded. Maximum memory: 350 hours.
- To stop the timekeeping and also the recording of GPS and pulse data, press the **STOP/SET** button again.
- To continue the timekeeping and therefore also the recording of GPS and pulse data, press the **STOP/SET** button again, to stop again the **STOP/SET** button.
- To reset the timekeeping and save the recording of the GPS and pulse data, press the **SET** button for about 3 seconds during stopped timekeeping. Your run or ride is now saved as one recording in the GPS device.
- If you start the timekeeping again with the **STOP/SET** button again, a second recording is started, etc.

Deleting the Memory:
If the timekeeping is at zero, press the **STOP/SET** button for about 5 seconds.

CLEAR ALL STORE DATA IN WATCH
In Stopwatch memory screen, Hold **SET** for 5 seconds, clears all memory.

To download the saved recordings follow from Transfer of GPS data to a Computer.

GPS RECEPTION

Tip:
Hold the GPS still for a few minutes in an open area before you start your journey or drive in an open area with free sight of the sky and switch it on, press and hold the **SATELLITE ON/OFF** for about 3 seconds.

Switch on the GPS device:
Hold the **SATELLITE ON/OFF** for about 3 seconds.
Switch off the GPS device:
Hold the **SATELLITE ON/OFF** for about 3 seconds.
The GPS device automatically starts to search for a GPS signal, visible by the blinking satellite symbol in the top left of the display.

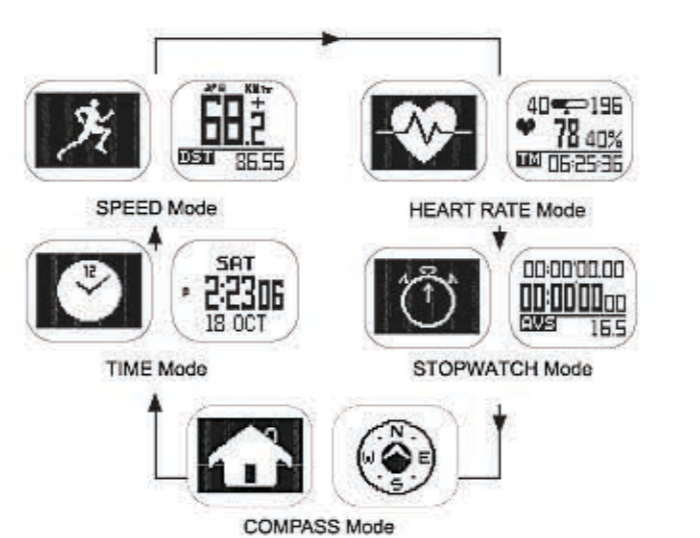
Please note that it can take up to 15 minutes from the first start in new surroundings until the first satellite reception occurs. Then the satellite symbol appears permanently on the display. The more 'waves' are displayed around the satellite symbol, the better the reception:



If the GPS device has not received a Satellite signal in 30 minutes, GPS automatically switches off. By holding the **SATELLITE ON/OFF** button for 3 seconds, the search for GPS signal start again.

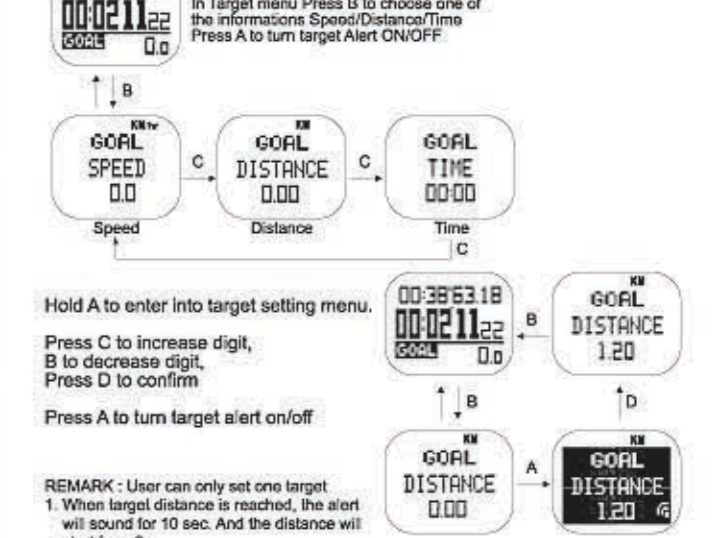
TO TURN ON AND DISPLAY DIFFERENT MODE

- Press and hold **SATELLITE ON/OFF** button for 3 seconds to turn on the GPS device.
- Press **MODE** button to switch between different mode.



SETTING TARGET

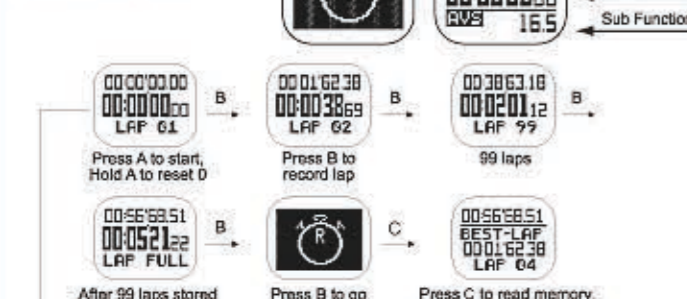
If the stop watch is running, press A to stop stopwatch to set target.



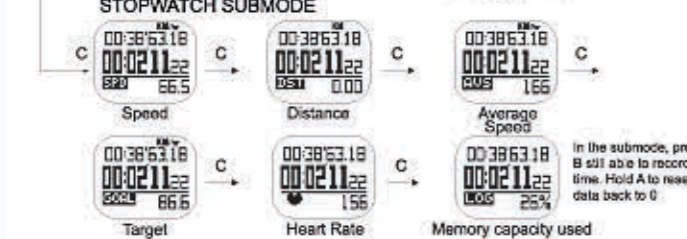
REMARK: User can only set one target.
1. When target distance is reached, the alert will sound for 10 sec. And the distance will start from 0.
2. The watch will beep if target speed is not reached.
3. When target time is reached, the alert will sound for 10 sec. And the timer will start from 0.

STOPWATCH MODE

Press the **D** button until you are in the stopwatch mode, as shown by the following readout:



STOPWATCH SUBMODE

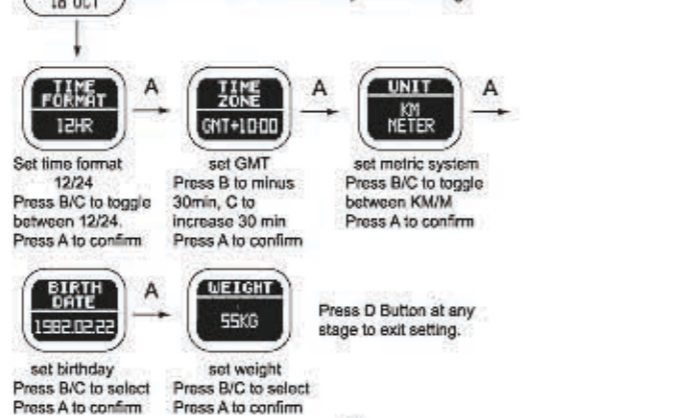


TIME MODE

Time setting
After the watch is fully charged, remove the USB connector. The watch enters into time mode. During satellite reception (see item GPS Reception) time and date are set automatically. Setting the time manually is not possible.

Notice: Please note that the GPS signal sends Greenwich Mean Time (GMT), and it may be necessary to set a different time zone.

To set a different time zone, please follow:



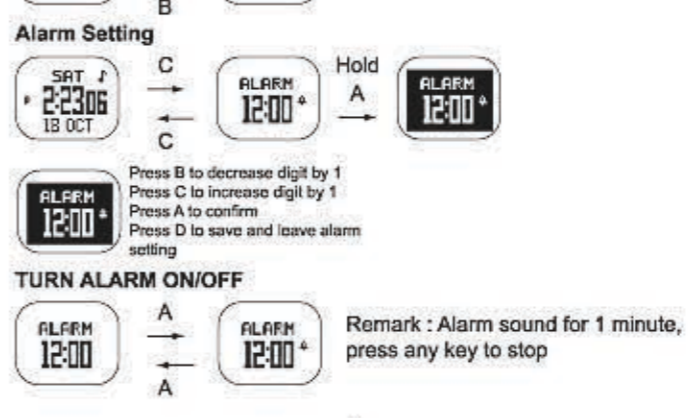
HOURLY CHIME

Hourly Chime ON Hourly Chime OFF

Toggle between Date/Year Display

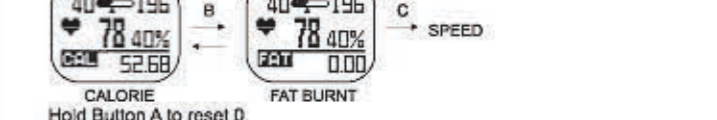
Alarm Setting

TURN ALARM ON/OFF



HEART RATE SUBMODE (CALORIE/FAT BURNT)

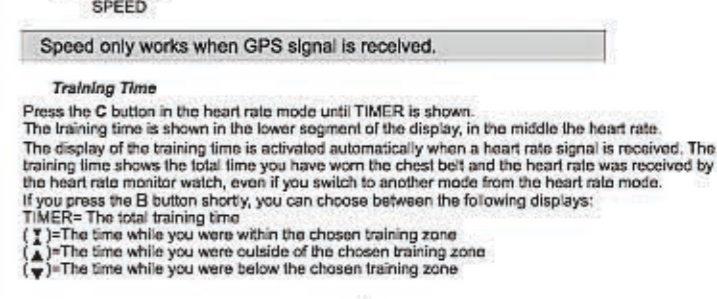
By pressing the **RECALL** button(B) you can change the readout in the lower part of the display as follows:



HEART RATE SUBMODE (SPEED MODE)

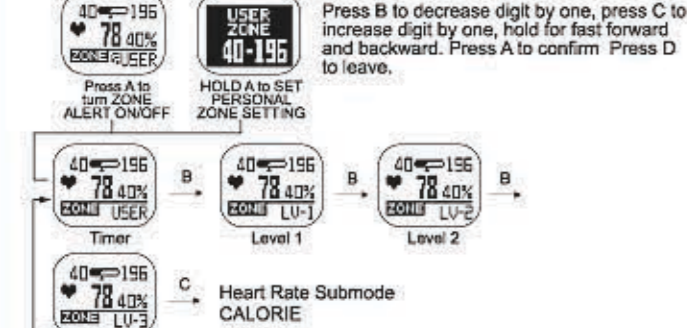
SPEED only works when GPS signal is received.

Training Time



HEART RATE SUBMODE ZONE

By pressing button B you can change the readout in the lower part of the display as follows:

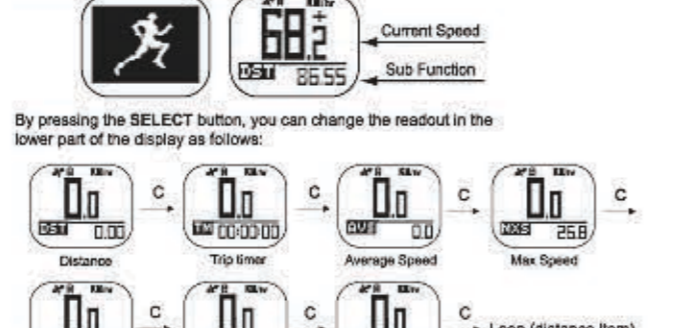


KNOW YOUR LIMITS AND DETERMINE YOUR PERSONAL EXERCISE ZONE

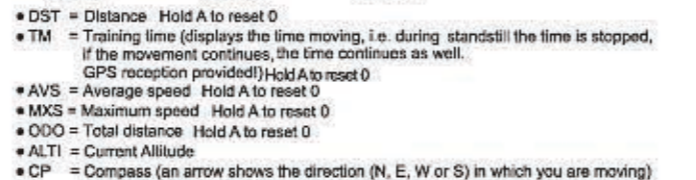
Exercise zones are established by setting Upper and Lower Heart Rate Limits. These limits constitute a certain percentage of your Maximum Heart Rate (MHR).
MHR = 200 from 190
e.g. Age 20
MHR = 200 - 10 * 20 = 180
For instance, the current heart rate is 150, then 75% will be shown.

SPEED MODE

Press the **MODE** button until you are in the speed mode, as shown in the following readout (graphics on the left):

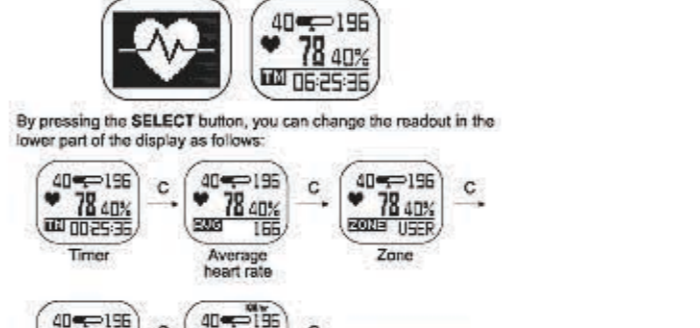


By pressing the **SELECT** button, you can change the readout in the lower part of the display as follows:



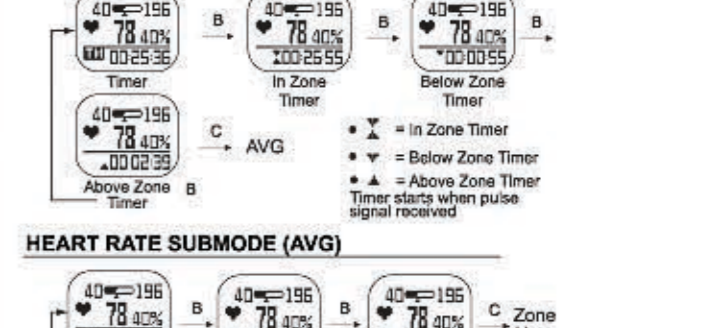
HEART RATE MODE

Press the **MODE** button until you are in the heart rate mode, as shown in the following readout (graphics on the left):



HEART RATE SUBMODE(TIMER)

By pressing the **RECALL** button(B) you can change the readout in the lower part of the display as follows:



HEART RATE SUBMODE (AVG)

