

INTRODUCTION

This device is a digital product that provides altimeter, barometer, compass, altimeter data, dual time, chronograph, chronograph data and alarm functions.

Features:

Altimeter

- 1 meter (or foot) resolution and with working range from -700 meters (-2296 feet) to 9000 meters (29520 feet).
- Graphical expression of changes provided.
- Unit in meters or feet selectable.
- 20 memories with date, time and altitude reading.

Barometer

- 1 mbar/hPa resolution and with working range from 300 mbar/hPa to 1100 mbar/hPa.
- Graphical expression of changes provided.
- Both sea level pressure and absolute pressure can be shown.
- Weather forecast.
- Temperature displayed in °F or °C selectable.

Compass

- Electronic compass providing 16 cardinal indications together with bearing in degrees.

- Declination correction provided.

Time

- 2 time modes selectable.
- Presents day of the week, day, hours, minutes and seconds (year and month can also be set).
- 12/24-hour formats selectable.
- Auto-calendar from 2000 to 2049.

Chronograph

- 1/100-second resolution with working range up to 24 hours.
- 100 memories for lap/split times stored in a maximum of 30 runs.

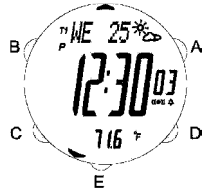
Alarm

- 2 daily alarms.
- Hourly chime.

Electro-luminescent backlight

- 3 seconds light up EL backlight

BASIC OPERATION OF BUTTONS



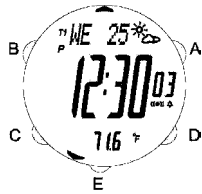
- A: - SWITCH AMONG DISPLAYS
 - TAKE BEARING
 - STORE ALTITUDE DATA (PRESS AND HOLD)
 - FORWARD SELECTION OF ALTITUDE DATA
 - START/LAP OF CHRONOGRAPH
 - RETRIEVE DATA IN RUN
 - TURN ALARM ON AND OFF
 - FORWARD SETTING (SET OR CALIBRATION)
- B: - SWITCH BETWEEN NORMAL TIME AND DUAL TIME (PRESS AND HOLD)
 - SWITCH BETWEEN UNITS OF TEMPERATURE (PRESS AND HOLD)
 - SWITCH BETWEEN UNITS OF ALTITUDE (PRESS AND HOLD)
 - REVERSE SELECTION OF ALTITUDE DATA
 - STOP CHRONOGRAPH
 - STORE CHRONOGRAPH DATA (PRESS AND HOLD)
 - SELECT RUN NUMBER
 - SWITCH BETWEEN ALARM 1 AND ALARM 2
 - REVERSE SETTING (SET OR CALIBRATION)
- C: - MODE CHANGE
 - DIRECT CHANGE TO TIME MODE (PRESS AND HOLD)
 - ADVANCE TO NEXT SETTING (SET OR CALIBRATION)

- D: - EL BACKLIGHT
 - ENTER SET OR CALIBRATION (PRESS AND HOLD)
 - CLEAR DATA (PRESS AND HOLD)
 - EXIT (SET OR CALIBRATION)
- E: - SWITCH AMONG DISPLAYS
 - SWITCH BETWEEN DATE AND ALTITUDE READING DISPLAYS
 - SHOW NUMBER OF UNUSED LAP

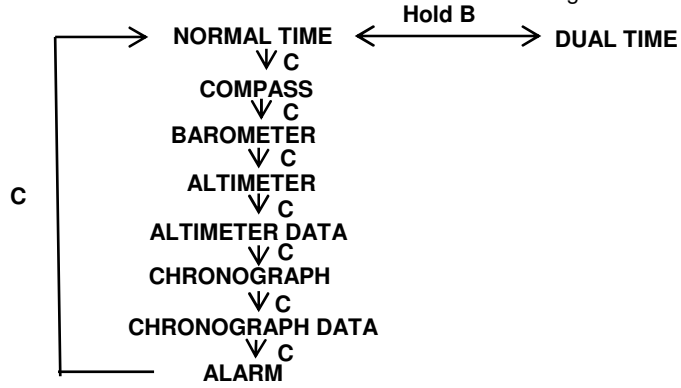
EL BACKLIGHT

Press D for EL backlight with 3 seconds auto light up.

MODE CHANGE OPERATION

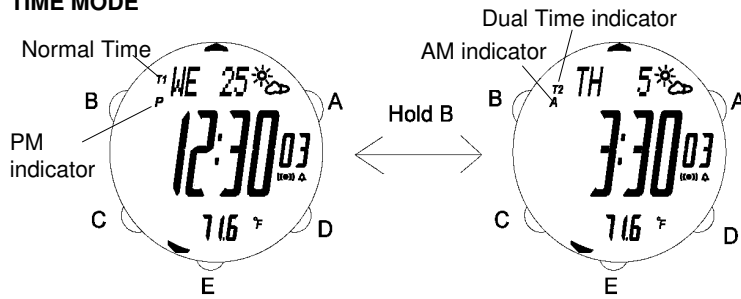


There are 9 modes: Normal Time, Dual Time, Compass, Barometer, Altimeter, Altimeter Data, Chronograph, Chronograph Data and Alarm.
 Press C to change from mode to mode, hold down B to switch between Normal Time mode and Dual Time mode as in the following:



* At any mode, holding down C will change to Time mode directly.

TIME MODE



Use C to enter Time mode.

* Mode prompt "TIME" is displayed first.

- There are 2 time modes, Normal Time (indicated by T1) and Dual Time (indicated by T2), and they count up individually with the same second.
- There are 3 displays for time. They are Time, Time with Barometer and Time with Weather.
- There is an auto-calendar from 2000 to 2049.

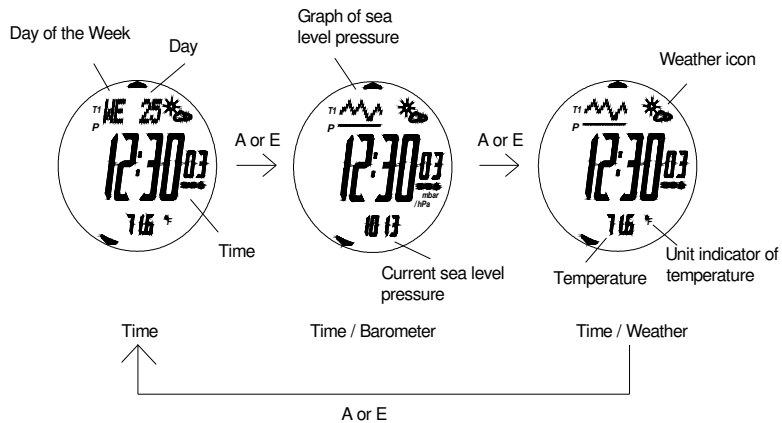
To switch between Normal Time and Dual Time

Hold down B until the mode indicator (T1 or T2) stops flashing to switch between Normal Time mode and Dual Time mode.

To switch among the 3 time displays

Use A or E to switch among the 3 displays for time.

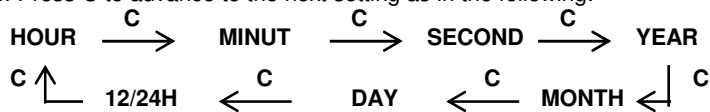
* "TIME", "BAROMETER" or "WEATHER" is displayed first.



* Graph of sea level pressure is described in BAROMETER MODE.

To set time

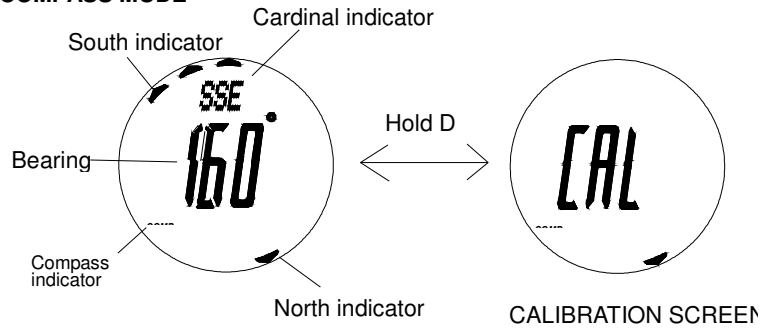
1. Hold down D until the hour digits start to flash on the display, which indicates the setting screen.
2. Use A (+) and B (-) to change the setting. Holding down either button scrolls the setting at high speed.
3. Press C to advance to the next setting as in the following:



* When second digits are flashing, press A or B to reset the digits to 00.
Resetting seconds when the digits are

- between 00 to 29 will leave the minute digits unchanged, or between 30 to 59 will increase the minute digits by one.
- * When 12 or 24 is flashing, press A or B to switch between 12- or 24-hour formats. If 12-hour format is chosen, AM or PM indicator will be shown.
- 4. Press D to exit the setting screen and day of the week will be adjusted automatically.
- * If there is no button operation for 2-3 minutes at setting screen, the display will return to Time mode automatically.

COMPASS MODE



Use C to enter Compass mode.

- * Mode prompt "COMP" is displayed first and bearings will be taken automatically.
- Compass mode indicator is shown.
- When you take bearings, readings are shown in 16 cardinal indications together with bearing in degrees.
- * Reading shown indicates the direction that the LCD's 12 o'clock position is pointing to.

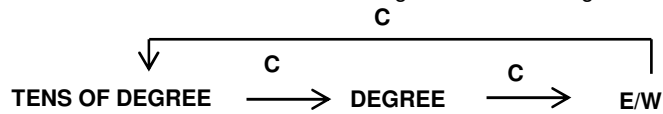
- North-South arrow is shown on circumference of the LCD.
- * North is indicated by 1 flag and South is indicated by 3 flags.
- Declination correction is provided.
- * Declination is the difference between true north and magnetic north.

Importance

1. The compass should be calibrated before use.
2. The compass must be kept in a level position when in use.
3. Compass readings are easily affected by disturbing sources of magnetism, so the compass should always be used in the open air.

To calibrate the compass

1. Hold down D until "CAL" is shown on the display, which indicates the calibration screen.
2. Rotate the product slowly for 2 complete rotations.
 - * Each rotation must last for at least 15 seconds.
3. Press D and the ten-degree digit starts to flash on the display, which indicates the declination angle setting screen.
 - * Press A will end calibration skipping the declination angle setting. In this case, the declination angle is set to 0 degree.
4. Use A (+) and B (-) to change the setting. Holding down either button scrolls the setting at high speed.
5. Press C to advance to the next setting as in the following:



- * When E or W is flashing, press A or B to switch between East and West.
- * You should consult your local organization for information of declination.

Declination angles for major cities are listed below for reference only.

City	Declination Angle	City	Declination Angle	City	Declination Angle
Anchorage	22° E	London	4° W	Rio De Janeiro	21° W
Atlanta	4° W	Little Rock	3° E	San Francisco	15° E
Bombay	1° W	Livingston, MT	14° E	Seattle	19° E
Boston	16° W	Munich	1° E	Shanghai	5° W
Calgary	18° W	New York City	14° W	Toronto	11° W
Chicago	3° W	Orlando	5° W	Vancouver	20° W
Denver	10° E	Oslo	2° W	Washington DC	10° W
Jerusalem	3° E	Paris	2° W	Waterbury, CT	14° W

6. Press D to end calibration.

* If "ERR" indicating error is displayed, calibrate the compass again.

* If there is no button operation for 2-3 minutes during calibration or at declination angle setting screen, the display will return to Compass mode automatically.

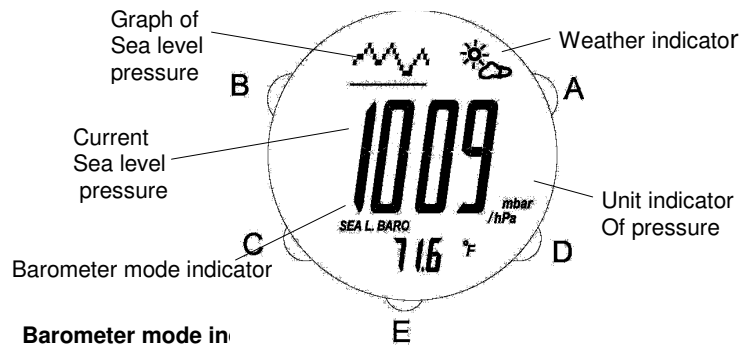
To take bearings

1. Press A, bearings will be taken and shown for about 10 seconds.

* If no bearing is being taken, the display shows "----".

2. Hold down A, bearings will be taken and shown continuously and for 10 seconds more after A is released.

BAROMETER MODE



Barometer mode in

Use C to enter Barometer mode.

* Mode prompt "BARO" is displayed first.

- Barometer mode indicator is shown.

- The barometer is of 1 mbar/hPa resolution and with working range from 300 mbar/hPa to 1100 mbar/hPa.

- Both sea level pressure and absolute pressure can be shown.

- Graph showing the changes in sea level pressure is provided.

* Graph will be cleared only after battery replacement or reset.

- Weather forecast (indicated by the weather indicators) for the coming 24-48 hours is provided.

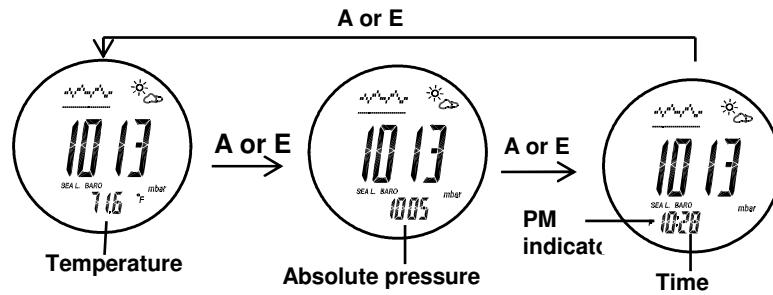
* Forecast is accurate only if the barometer has been functioning for at least 12 hours.

- Temperature is of 0.1 degree resolution and with working range from -4 °F (-20 °C) to 158 °F (70 °C). And unit in °F or °C selectable.

- There are 3 displays for Barometer mode.

To switch among the 3 displays for barometer mode

Use A or E to switch among the 3 displays for barometer mode.



Reading the graph of sea level pressure

The graph shows the relative changes in sea level pressure in the past with the current pressure represented on the right. Each horizontal point represents one hour while each vertical point represents the relative reading of pressure in that time.

* It is not possible to get the exact reading from the graph. User can only get the trend of changes from the graph.

To switch between mbar/hPa and inHg

1. Use A or E to switch to the barometer display with Sea level and actual press.
2. Hold down C unit the unit indicator (mbar/hPa or inHg) stops flashing to switch pressure between mbar/hPa and inHg.

To view 24 hours recall of Barometric Data

24 hours recall show the barometric data for past 24 hours with graph and reading.

1. Press C to enter to Barometer mode.

2. Press and hold A until the recall display is shown.
3. Press A to view the recall forward, and B for backward.

To switch between °F and °C

1. Use A or E to switch to the barometer display with temperature.
2. Hold down B until the unit indicator (°F or °C) stops flashing to switch temperature between °F and °C.

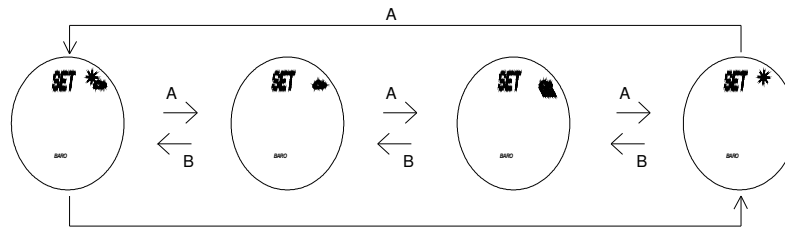
To set sea level pressure reading

1. Hold down D until "SET CURRENT WEATHER" scrolls on the display, which indicates the weather setting screen.
 - * The weather indicators start to flash.
2. Press C, "SET SEA LEVEL PRESSURE" scrolls on the display, which indicates reading setting screen.
 - * The current sea level pressure reading starts to flash.
3. Use A (+) and B (-) to change the setting. Holding down either button scrolls the setting at high speed.
4. Press D to exit the setting screen.
 - * If there is no button operation for 2-3 minutes at setting screen, the display will return to Barometer mode automatically.

To set current weather

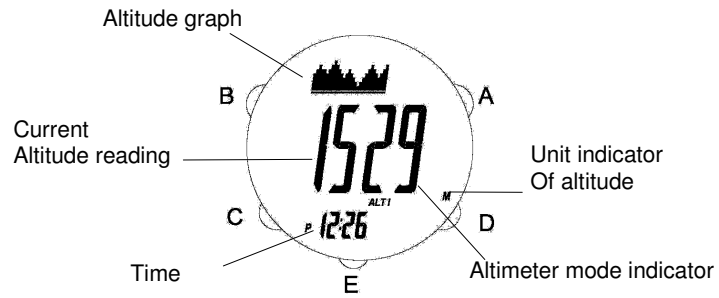
1. Hold down D until "SET CURRENT WEATHER" scrolls on the display, which indicates the weather setting screen.
 - * The weather indicators start to flash.

2. Use A (+) and B (-) to change the setting as in the following:



3. Press D to exit the setting screen. B
If there is no button operation for 2-3 minutes at setting screen, the display will return to Barometer mode automatically.

ALTIMETER MODE



Use C to enter Altimeter mode.

* Mode prompt "ALTI" is displayed first.

- Altimeter mode indicator is shown.

- The altimeter is of 1 meter (or foot) resolution and with working range from -700 meters (-2296 feet) to 9000 meters (29520 feet).

- Altitude reading in meters or feet selectable.

- Graph showing the changes in altitude is provided.

* Graph will be cleared only after battery replacement or reset.

- Maximum 20 altitude data can be stored.

Reading the altitude graph

The altitude graph shows the relative changes in altitude in the past with the current altitude represented on the right. Each horizontal point represents 15 minutes while each column represents the relative reading of altitude in that time.

* It is not possible to get the exact reading from the graph. User can only get the trend of changes from the graph.

To switch between meters and feet

Hold down B until the unit indicator (M or Ft) stops flashing to switch altitude reading between meters and feet.

To store altitude data

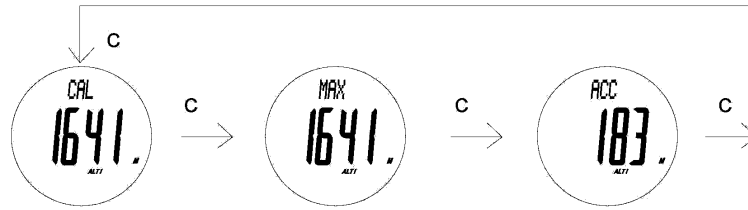
Hold down A until "DATA" stops flashing to store the current altitude data.

* "STORED" and data number are shown.

To view Acc. & Max Data

- Press button A will start the scrolling of accumulated altitude "ACC" and maximum altitude "MAX" at the top row again just like entering Altimeter mode.

- The altitude reading can be calibrated, the maximum altitude and the accumulated altitude can be reset individually.
- Press and hold button D for 4 seconds ("CAL HOLD" displayed) to enter altimeter calibration mode, altitude reading starts flashing.
- If there is no altitude changes for 30 minutes, weather icon will be appeared.
- Press button A (forward) or button B (reverse) to calibrate the altitude reading. Then press button C to select maximum altitude (MAX) or accumulated altitude (ACC) for calibration. The sequence is shown as follow:



Altitude calibration Reset maximum altitude Reset accumulated altitude

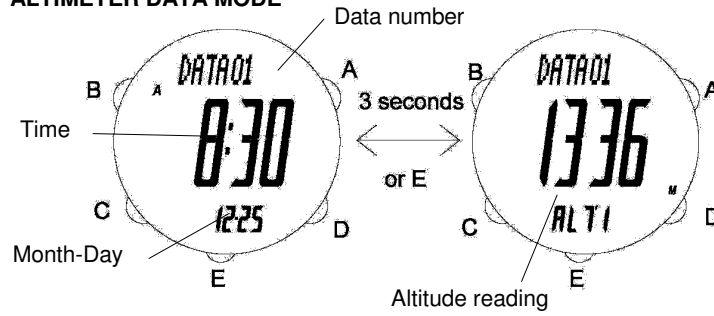
- For maximum and accumulated altitude calibration, press button A or B to reset to zero.
- After all calibrations are completed, press button D to exit altitude calibration mode.

- Press and hold button A for 3 seconds can store the current altitude data. Characters "STORED" will be displayed at the top row when data is stored. Maximum 20 altitude data can be stored and when memory is full, characters "FULL" will be displayed and no further data can be stored. Each altitude data stores the data number, month, day, hours, minutes and altitude reading.

To calibrate altitude reading

1. Hold down D until the current altitude reading starts to flash on the display, which indicates the setting screen.
2. Use A (+) and B (-) to change the setting. Holding down either button scrolls the setting at high speed.
3. Press D to exit the setting screen.
* If there is no button operation for 2-3 minutes at setting screen, the display will return to Altimeter mode automatically.

ALTIMETER DATA MODE



Use C to enter Altimeter Data mode.

* Mode prompt "ALTI DATA" is displayed first.

- Data number, time, date and altitude reading can be retrieved.

* Altitude data are shown in 2 different displays.

To retrieve the altitude data

1. Use A (+) and B (-) to select the altitude data to be retrieved.

2. Press E to switch between the 2 displays of data.

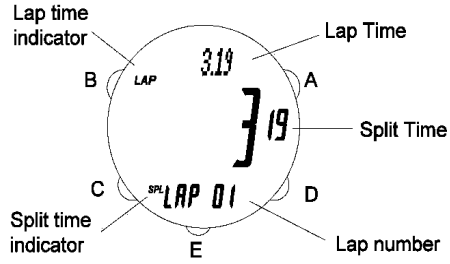
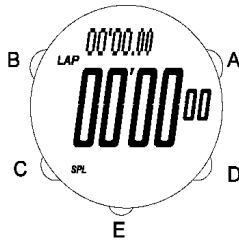
* If no button is pressed, the 2 displays will be shown for 3 seconds alternately.

To clear the altitude data

Hold down D until "----" is shown on the display to clear all altitude data stored.

* Altitude data cannot be cleared individually.

CHRONOGRAPH MODE



Use C to enter Chronograph mode.

* Mode prompt "CHRO" is displayed first.

- The chronograph is of 1/100-second resolution for the first hour and 1-second resolution for the rest and with working range up to 24 hours, then the chronograph stops automatically.
- For the first hour, the chronograph shows minutes, seconds and 1/100-seconds, then it shows hours, minutes and seconds.
 - * Leading zeros will not be shown.
- There are 100 memories for lap/split times stored in a maximum of 30 runs.
- The chronograph lets you measure elapsed time, lap/split times and two (or more) finishes.
 - * When you take lap/split times, the display will be frozen to show lap time, split time and lap number for about 6 seconds, then the display will show the current running times automatically.

To measure elapsed time

1. Press A to start the chronograph.
2. Press B to stop the chronograph.
 - * You can resume the measurement operation by pressing A.
3. Hold down B until the next run number is shown on the display.
 - * Data of the current run is stored and chronograph is reset to all zeros.

To measure lap/split times

1. Press A to start a time measurement.
2. Press A again when you want to take the first lap/split time.
3. Press A again when you want to take the next lap/split time.
 - * You may take up to 100 lap/split times by pressing A.
4. Press B to stop the time measurement.
5. Hold down B until the next run number is shown on the display.
 - * Data of the current run is stored and chronograph is reset to all zeros.

To measure two (or more) finishes

1. Press A to start a time measurement.
2. Press A again when the first runner finishes.

3. Press A again when the second runner finishes.
 - * You may record the finish time of up to 100 runners by pressing A.
4. Press B when the last runner finishes.
 - * Time measurement is stopped.
5. Hold down B until the next run number is shown on the display.
 - * Data of the current run is stored and chronograph is reset to all zeros.
 - * The finish times for the runners are the split times stored in Chronograph Data mode.

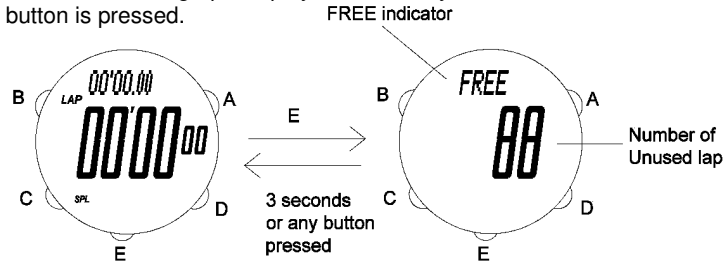
To clear times in current run

1. Press B to stop the chronograph.
2. Hold down D until the chronograph shows all zeros.
 - * Times in current run are cleared.

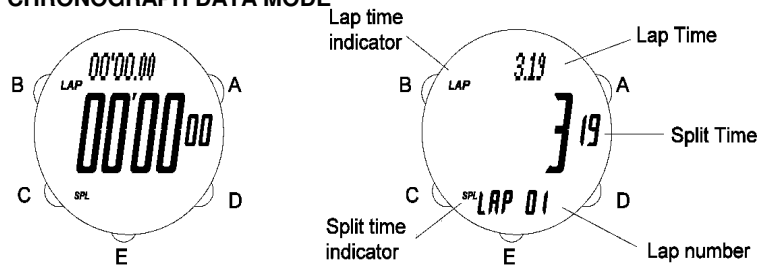
To show number of unused lap

When the chronograph shows all zeros, press E and the number of unused lap (indicated by "FREE") will be shown for 3 seconds.

* Returns to chronograph display automatically after 3 seconds or when any button is pressed.



CHRONOGRAPH DATA MODE



Use C to enter Chronograph Data mode.

* Mode prompt "CHRO DATA" is displayed first.

- Run number, date, lap/split time of each lap, best lap time and average lap time can be retrieved.

- If chronograph is running, chronograph data cannot be cleared.

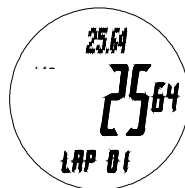
To retrieve the chronograph data

1. Use B to select the run to be retrieved.

* Run number and date are shown for about 2 seconds first.

2. Press A to retrieve the data one by one.

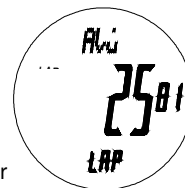
* Display examples:



Lap/split time of lap 1



Best lap time



Average lap time

To clear one particular run

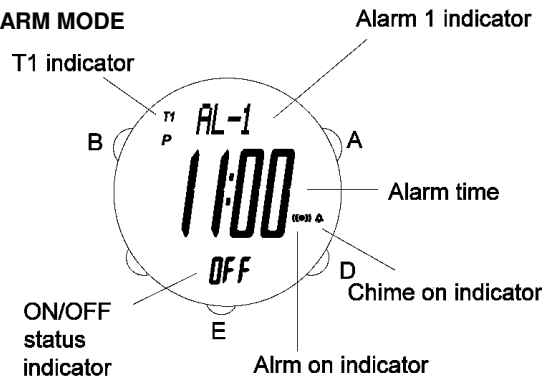
1. Use B to select the run to be cleared.
2. Hold down D until "CLEAR HOLD ALL" is shown on the display, release D and the selected run will be cleared.

To clear all runs

Hold down D until "----" is shown on the display.

* All runs are cleared.

ALARM MODE



Use C to enter Alarm mode.

* Mode prompt "ALRM" is displayed first.

- There are 2 daily alarms and they can be set to refer to Normal Time (indicated by T1) or Dual Time (indicated by T2).
- Daily alarm sounds at the same time each day, while it is turned on.

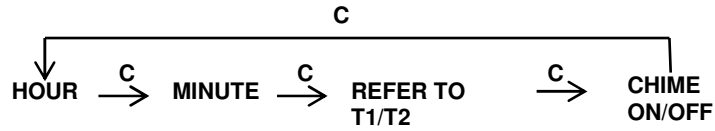
- The alarm sounds at the preset time for about 20 seconds, or until you stop it by pressing any button.
- The alarm on indicator is only displayed at the time mode that the alarm is set to refer to.
- Hourly chime sounds at every full hour, while it is turned on.
- * If chime is turned on, confirmation sound will be given whenever a button is pressed.

To switch between alarm 1 and alarm 2

Press B to switch between alarm 1 (indicated by AL-1) and alarm 2 (indicated by AL-2).

To set alarm time and turn chime on and off

1. Hold down D until the hour digits start to flash on the display, which indicates the setting screen.
2. Use A (+) and B (-) to change the setting. Holding down either button scrolls the setting at high speed.
3. Press C to advance to the next setting as in the following:



* When TIME 1 or TIME 2 is flashing, press A or B to switch between setting the alarm to refer to Normal Time (TIME 1) and Dual Time (TIME 2).

* When ON or OFF is flashing, press A or B to turn the chime on (indicated by ON) and off (indicated by OFF). If chime is turned on, the chime on indicator will be shown after exiting setting screen.

4. Press D to exit the setting screen.

- * The alarm turns on, which is indicated by ON and the appearance of the alarm on indicator.
- * If there is no button operation for 2-3 minutes at setting screen, the display will return to Alarm mode automatically.

To turn the alarm on and off

Press A to turn the alarm on (indicated by ON) and off (indicated by OFF).

- * If the alarm is turned on, the alarm on indicator will be shown.

RESETTING THE PRODUCT

Hold down A, B, C and D simultaneously, all segments will be "on", then release the buttons and the product will be reset.

- * After reset, there will not be any measurement of altitude, pressure or temperature until A, C or E is pressed.

- * After reset, entering Compass mode will change to calibration screen directly.

BATTERY REPLACEMENT

Replace the exhausted battery with a CR2032 cell or equivalent.

Altimetermode with altitude change: measures every 2,5 seconds

Altimetermode without altitude change (barometer mode): every 2,5 minutes

Barometermode: measures every 2,5 minutes. Changes to Time mode after 24 hours

Temperature: measures every 2,5 minutes.

CE



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