

# INSTRUCTION MANUAL for Model No. 52 (5 button)



## INTRODUCTION

Model No. 52 is a digital product that provides altimeter, barometer, compass, altimeter Log data, dual time, chronograph and alarm functions.

## Features

### Altimeter

- 1 meter (or feet) 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.
- Show ASC / DSC rate in feet/minute or meter/minute.

20 logbook data with total ASC / DSC rate, Average ASC / DSC rate, number of hill and total time. With 24 hour Graph memory recall.

### Barometer

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

### Compass

- Bearing in degrees
- Graphical direction bearing indicator
- Declination setting

### 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 2006 to 2055.

### Chronograph

- 24 hours auto stop.
- Max. 50laps memory for chrono.

### Alarm

- Total 2 daily alarms.
- Hourly chime.

### Electro-luminescent backlight

- 3 seconds light up EL backlight.

## BASIC OPERATION OF BUTTONS



### (S3)

- MODE CHANGE
- SELECT SETTING FIELD ON TIME, COMPASS, BARO, ALTITUDE AND ALARM MODE. MODE TO NEXT

### (S4)

- HOLD TO SET
- EXIT SETTING
- DELETE FILE
- TO STOP SCROLLING

### (S2)

- SELECT VIEWS
- REVERSE SETTING
- STOP/RESET
- AL1/AL2/CHIME

### (S1)

- START/STOP
- REACTIVATE COMPASS FUNCTION
- ALARM ON/OFF
- FORWARD SETTING

### (S5)

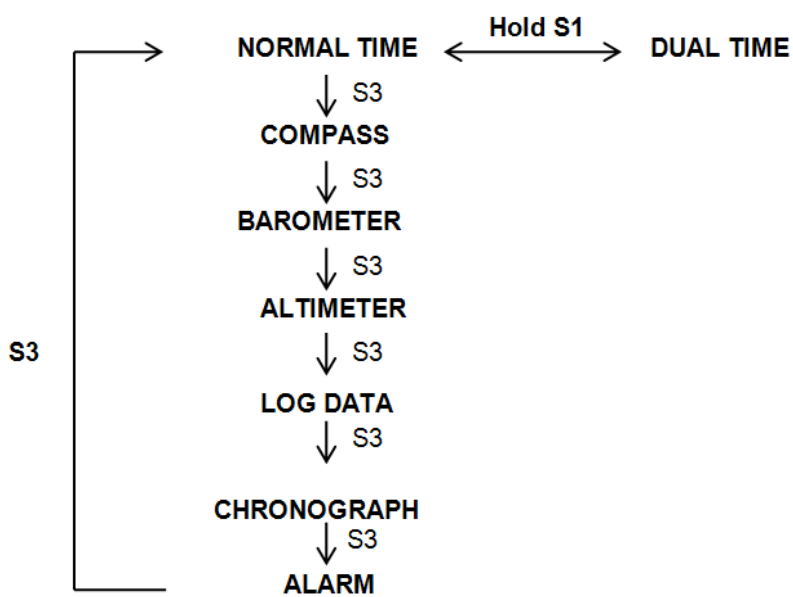
- LIGHT ON

## MODE CHANGE OPERATION



This product provides 7 modes: Time, Compass, Barometer, Altimeter, Log Data, Chronograph and Alarm.

Press A to select to your desired mode.



## TIME MODE

Press S3 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 five views for user selection (shown as following graphic)
- There is an auto-calendar from 2006 to 2055.

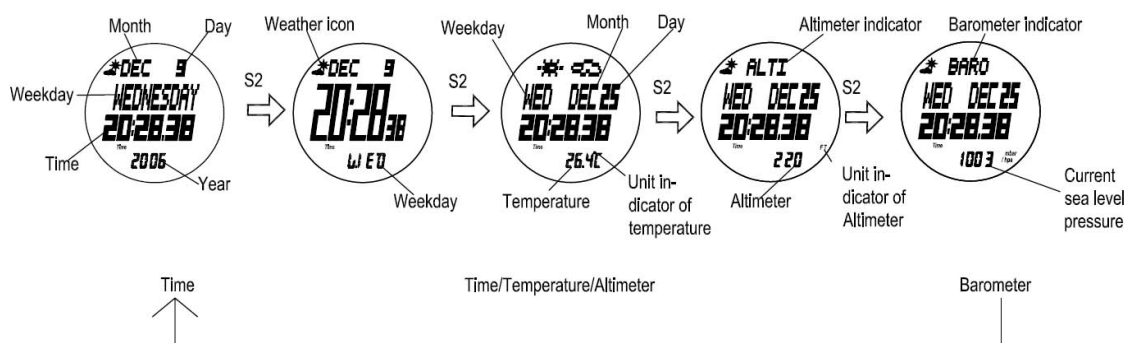


### To switch among the 5 time displays

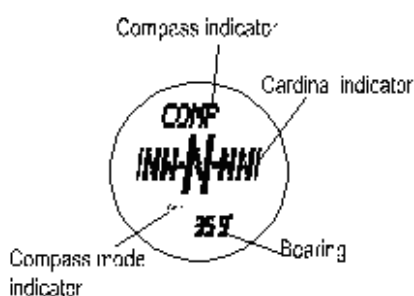
Use S2 to switch among the 5 displays for time.

### To set time

1. Press and hold S4 enter time setting mode.
2. Press S3 to select the topic you want to set, hour, min, sec, year, month, day, 12/24-hour format, altitude unit, barometric unit and temperature unit.
3. Use S1 and S2 to adjust.
4. Press S4 to exit setting with saved setting data.
5. If there is no key operation for 2-3 minutes, the watch will auto exit the setting mode and return to normal.



## COMPASS MODE



Use S3 to enter Compass mode.

\* Mode prompt "COMP" is displayed first and Calibration mode will be entered after entering Compass mode (after the watch reset).

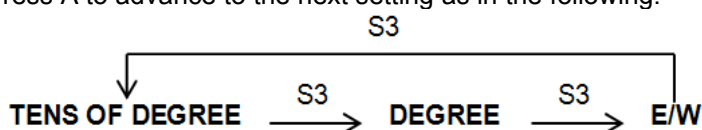
- When you take bearings, readings are shown in graphical direction with bearing in degrees.  
\* Display shows the direction that the LCD's 12 o'clock position is pointing to.
- Declination correction is provided.
- Declination is the difference between true north and magnetic north.

## 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 S4 until "ROTATE CAL" is shown on the display, which indicates the calibration screen.
2. Rotate the product slowly for 2 times each rotation must last for at least 15 seconds.
3. Press S3 and the ten-degree digit starts to flash on the display, which indicates the declination angle setting screen.  
\* Press S4, S1 and S2 will end calibration skipping the declination angle setting. In this case, the declination angle is set to 0 degree.
4. Use S1 (+) and S2 (-) to change the setting. Holding down either button scrolls the setting at high speed.
5. Press A to advance to the next setting as in the following:



\* When E or W is flashing, press S2 or S1 to switch between East and West.

\* You should consult your local organization for information of declination.

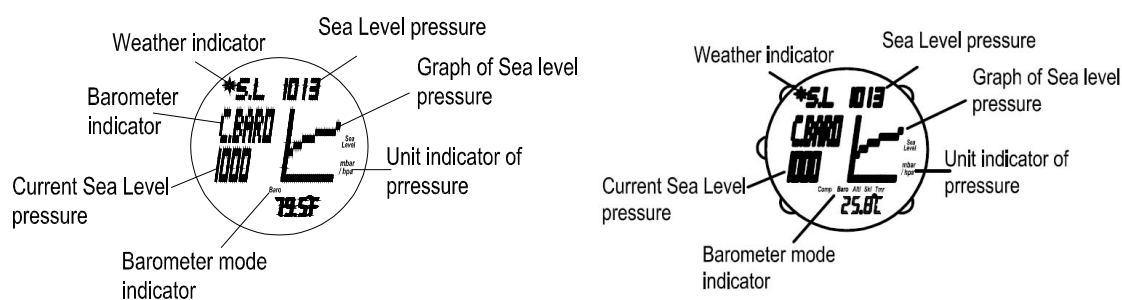
Declination angles for major cities are listed below for reference only.

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 S4 to end calibration.

\*Exit setting Auto exit if there is no any key operation for 2 to 3 minute.

## BAROMETER MODE

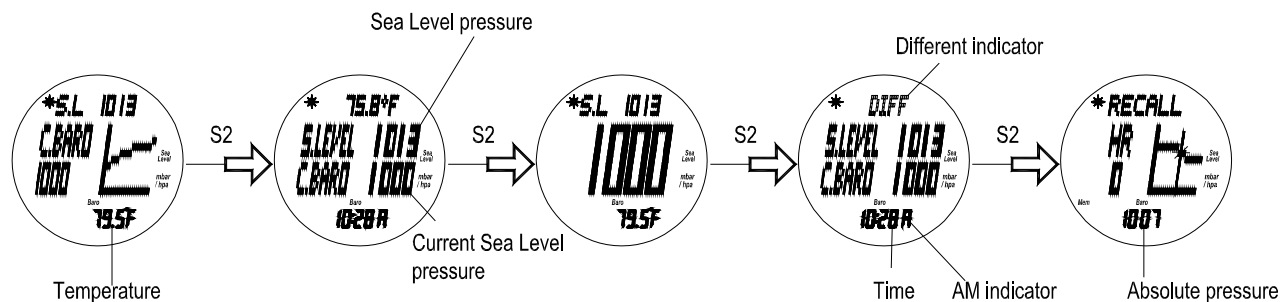


Use S3 to enter Barometer mode.

\* 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.
- It needs 12hour air pressure changes to calculate the weather forecast.
- There are five views for user selection (shown as following graphic).

## To switch among the 5 displays for barometer mode



## Reading the graph of sea level pressure

The graph shows the relative changes of 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 view 24 hours recall of Barometric Data

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

1. Press S3 to enter to Barometer mode.
2. Press S2 to switch to the recall display.
3. Press S1 to view the recall.

## To switch between mbar/hpa and inHg

1. Use S2 to switch to the barometer display with Sea level and actual air pressure.
2. Hold down S1 until the unit indicator (mbar/hpa or inHg) stops flashing to switch pressure between mbar/hpa and inHg.

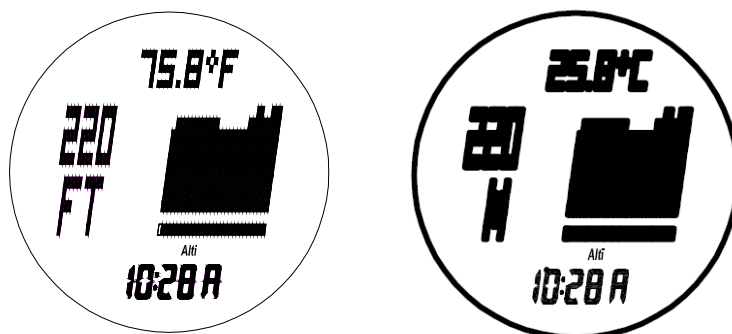
## To set sea level pressure reading

1. Hold down S4 until "SET WEATHER" is displayed, which indicates the weather setting screen.  
\* The weather indicator starts to flash.
2. Press S3 to set the current barometer pressure. The current sea level pressure reading starts to flash.
3. Use S1 (+) and S2 (-) to change the setting. Holding down either buttons, scrolls the setting at high speed.
4. Press S4 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 S4 until "SET WEATHER" is display, which indicates the weather setting screen.  
\* The weather indicators start to flash.
2. Use S1 (+) and S2 (-) to change the setting
3. Press S4 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.

## ALTIMETER MODE



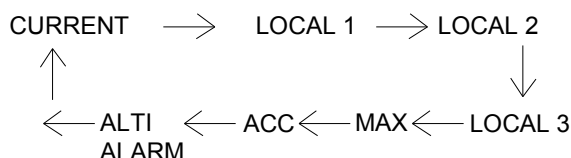
Use S3 to enter Altimeter mode.

\* 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 data can only be cleared after the watch is reset.
- 24 hour graph memory recall.
- User able to select and set the preset Alti value (Local 1, Local2, and Local 3) in setting mode.
- The watch automatically switches between Altimeter and barometer state in Altimeter mode.

### To set Alti

1. On Alti mode, press and hold S4 for 2 seconds, "CURRENT" is begin to flashing,
2. Use S1 (+) and S2 (-) to change the setting:



3. Use S1 (+) and S2 (-) to change the setting. Holding down either button scrolls the setting at high speed.
4. Press S4 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.

### Reading the altitude graph

The altitude graph shows the change in altitude. 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 S1 until the unit indicator (M or Ft) stops flashing to switch altitude reading between meters and feet.

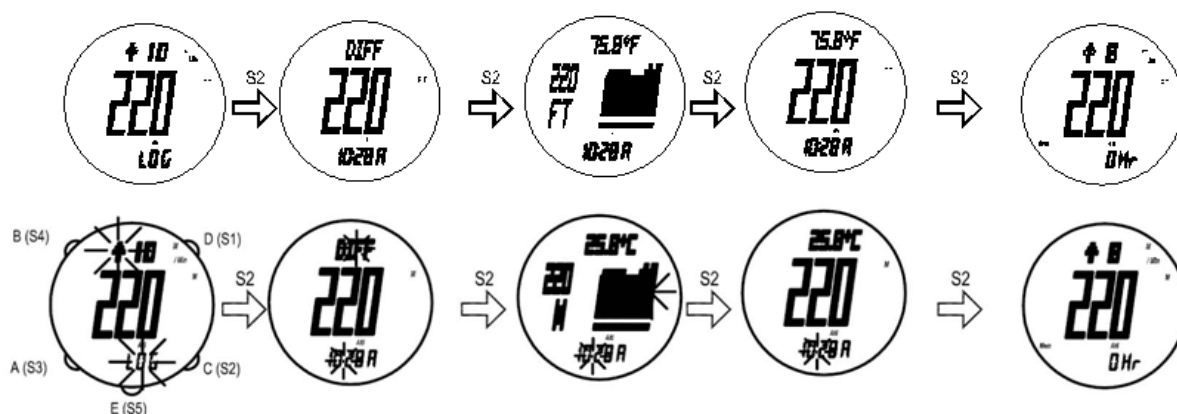
### To start /stop the logbook function

Press S1, "LOG 1 START" starts flashing, continue holding S1 to start logbook (when logbook function is not yet activated).

Press S1, "LOG 1 STOP" start flashing, continue hold S1 to stop logbook (when logbook function is activated).

## To view different display

1. Press S3 to enter Alti mode, use S2 to choose your desired view.  
There are five views for user selection (shown as following graphic):



## CHRONOGRAPH MODE



Use S3 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.
- 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 Start / Stop chronograph

1. Press S1 to start the chronograph.
2. Press S2 to stop the chronograph.  
\* You can resume the measurement operation by pressing S1.
3. Hold S2 to reset chronograph to zero.

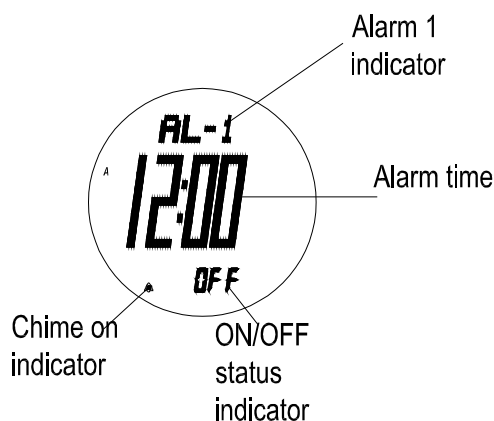
## To take laps

1. Press S1 to start the chronograph.
2. Press S1 to take lap/split when chronograph is running.  
\*You may take up to 50 laps by pressing S1.
3. Press S2 to stop the chronograph.
4. Press and Hold S2 to reset chronograph.

## To view the chronograph data

1. Press S1 to start the chronograph.
2. Press S1 to take lap /split up to 50 laps.
3. Press S2 to stop chronograph.
4. Press S4 to view lap / split time with best and average lap.  
\* If the chronograph is cleared, all data will be cleared.

## ALARM MODE



- Use S3 to enter Alarm mode.  
\* Mode prompt: "ALARM" is displayed first.
- Total 2 daily alarms.
- Press any key while alarm time sound is active to disable the alarm sound. Alarm sound stops automatically in 20 seconds.

### To Set Alarm

1. Press and hold S4 enter time setting mode.
2. Press S3 to select the topic you want to set, hour and minute.
3. Use S1 and S2 to adjust, (S1 for forward setting and S2 for reverse setting).
4. Press S4 to exit setting with saved setting data.
5. If there no key operation for 2-3 minutes, the watch will auto exit the setting mode and return to normal.

### Alarm chime

1. Press S2 to select Alarm 1 and Alarm 2 and chime.
2. Press S1 to toggle chime on/off.

## RESETTING THE PRODUCT

Hold down S1, S2, S3 and S4 simultaneously, all segments will be "on", and then release the buttons and the product will be reset.

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