

SET /LIGHT (A key) ———

COMP (D key) ———

MODE (B key) ———



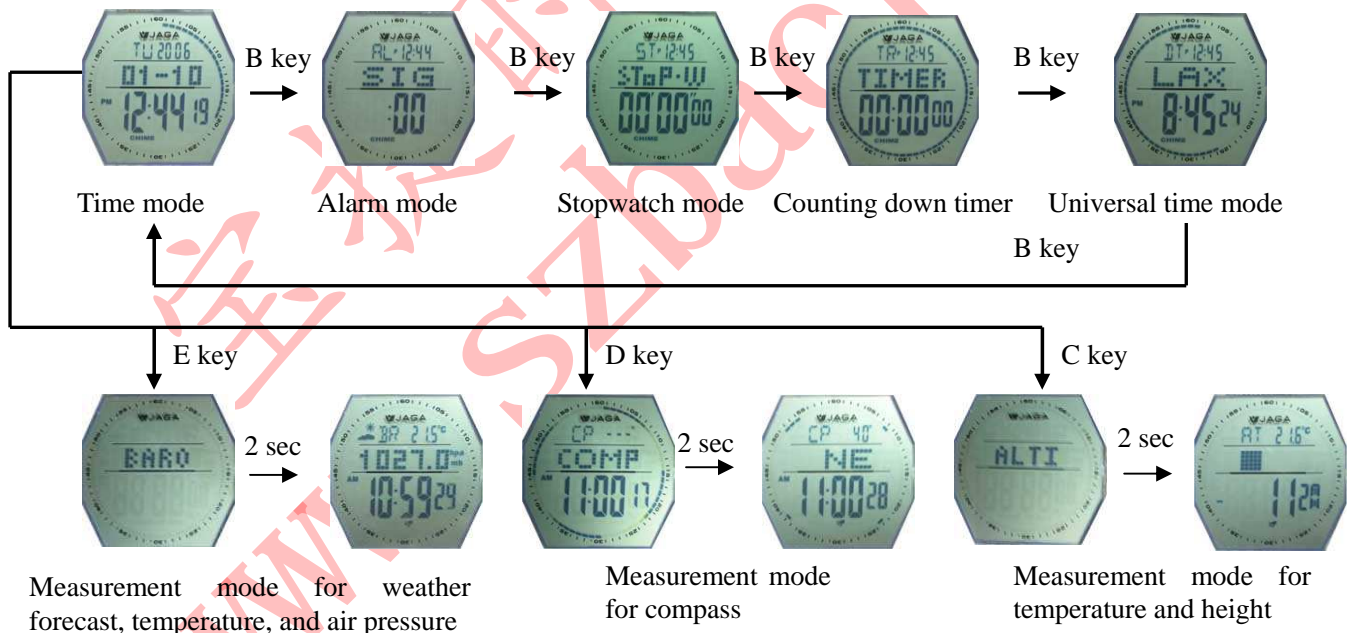
(E key) UP/BARO

(C key) DOWN/ALTI

A. Features

- Hour, minute, second, year, month, date, and the day of week display, year range is 2000 ~ 2099.
- 5 groups of alarm functions: one with snooze feature, four ring on specified date.
- Chime on every hour
- Stopwatch, 99 groups of stopwatch record checking, maximum time-keeping is 23 hours, 59 minutes, 59 seconds.
- Counting down, maximum 99: 59: 59
- Compass, height, air pressure, temperature, weather forecast, as well as the correction of compass, air pressure, height and temperature.
- 12/24 hours format
- Universal time, time of 28 cities in the world and daylight saving time (DST) displayed.
- Contrast of LCD may be set
- 3 seconds EL backlight

B. Product function modes



1. In any mode, press A key once, EL illuminates for 3 seconds.

2. Time function mode

- Press B key to enter alarm clock mode.
- Press A key once, EL illuminates for 3 seconds; press and hold A key for 2 seconds to enter time setting mode.
- Press E key to enter measurement mode for air pressure, temperature and weather forecast.
- Press D key to enter compass measurement mode.
- Press C key to enter measurement mode for temperature and height.

Time setting mode

- Press and hold A key for 2 seconds to enter time zone setting mode along with a tick sound and blink, it will exit the setting screen if without any keystroke operation within 1 minute, the current setting value will be stored.
 - a) Press B key to step sequentially through the following items (blink) :

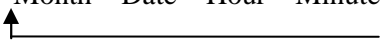
▶ Time zone → DST → second → hour → minute → year → month → date → 12/24H → contrast
 - b) Press E key for 1 increment in the desired setting item, press and hold E key for 2 seconds to advance quickly.
 - c) Press C key for 1 descending in the desired setting item, press and hold C key for 2 seconds to decrease quickly.
 - d) In second setting, in the range of 30~59 second, press E or C key to return to zero, and add 1 in minute; in the range of 0~29 second, press E or C key to clear.
 - e) Daylight saving time (DST) setting, press E or C key to turn on or turn off (OFF. ON). “DST” will display when DST is activated. No “DST” will display when DST is turned off.
 - f) When set 12/24-hour format, press E or C key to switch between 12/24 format.
 - g) When set contrast, press E to increase 1 in the desired item. Press and hold E key for 2 seconds to increase quickly. Press C key to decrease 1 in the desired item. Press and hold C key for 2 seconds to decrease quickly. The contrast range is 1~16.
 - h) When set time zone, press E to adjust time zone up. Press C key to adjust time zone down.
 - i) Press A key to exit the setting mode.

3. Alarm tone setting mode

- In SIG (Chime on every hour) mode, press E key to turn on or off this function. ‘CHIME’ will display when turn on, no ‘CHIME’ display when turn off. Press C key to change these five alarms sequentially.
- In the alarm tone mode, press C key to step sequentially through the chime and five alarms: SIG (Chime on every hour) → AL → A2 → A3 → A4 → A5
- In the first alarm ‘AL’ mode, press and hold A key for 2 seconds, the “hour” blink, press B key to change “hour ↔ minute”.
- Press E key to increase 1 to the desired item, press and hold E key for 2 seconds to advance quickly.
- Press C key to decrease 1 to the desired item, press and hold C key for 2 seconds to decrease quickly.
- When the time goes to the alarm time you set, it will ring bell for 20 seconds along with the symbol “♥” blinking.
- When the watch is alarming, press any key to stop it.
- Press E key to turn on or turn off this alarm, the first alarm clock is switched in the following order:

Alarm ring “♥” → ring plus snooze “SNZ” → all off “♥” “SNZ”
- Press A key to exit the setting mode.
- With the snooze function on, after the alarm ring stop, it will ring 20 seconds every 5 minutes for five times, along with the symbol “♥” and “SNZ” blinking. The snooze function apply for this alarm clock only, not for A2~A5.
- When in the snooze alarm ringing, press any key to stop. In any mode, press C key once to cancel the following snooze ringing. At this time, “SNZ” stops to blink. If the C key doesn’t be pressed, the following snooze ringing also can be canceled when entering time or alarm setting, and without “SNZ” blinking.
- Press C key to cycle through the 2nd~5th alarm mode (A2~A5). There are 4 combinations for each alarm mode, as below:
- Every day ringing:
 - a). Set the Hour and Minute only, the Month and Date set to “----”, so that the bell will ring every day when the time goes to the set time.

- Timing ringing:
 - a). Set the Month, Date, Hour and Minute, the bell will ring when the time goes to the specified date and time.
- Ring within the set month:
 - a). Set the Month, Hour and Minute only, input "----" to the Date location, the bell will ring every day when the time goes to the specified time within the set month.
- Ring at the same time each month:
 - a). Set the Date, Hour and Minute only, input "----" to the Month location, the bell will ring when the time goes to the same specified date and time for each month.
- A2~A5 Alarm setting:
- In alarm clock (A2~A5) mode, press E key to turn on or turn off the alarm symbol“ ♥ ”, press and hold A key for 2 seconds to enter alarm clock setting mode. Press B key to change between the following:

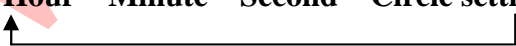
Month→Date→Hour→Minute

- Press E key to increase 1 in the desired item, press and hold E key for 2 seconds to advance quickly.
- Press C key to decrease 1 in the desired item, press and hold C key for 2 seconds to decrease quickly.
- Press A key to exit the setting mode.
- **Note:** The setting methods for the 2nd to 5th alarm clock (A2~A5) are similar.

4. Stopwatch mode

- The maximum timing range of the stopwatch is 23 hours 59 minutes and 59 seconds. When reach the maximum timing and stop, press C key to reset.
- In stopwatch mode, press E key to start or stop the second going. Press C key to reset after the stopwatch stop.
- During stopwatch running, press C key to choose 01~99 groups of LAP.
- The record inquiry range is 01~99 groups of LAP.
- In LAP mode, press and hold A key for 2 seconds to enter LAP inquiry mode. It will be invalid if without LAP chosen.
- Press E key to check up LAP, press and hold E for 2 seconds to check up quickly.
- Press C key to check down LAP, press and hold C for 2 seconds to check down quickly.
- Press and hold A key for 2 seconds to exit stopwatch LAP inquiry mode, or pressing B key has the same function.

5. Counting down function

- The maximum counting down range is: 99 hours, 59 minutes and 59 seconds.
- When count down to 0:00 00, the bell will ring for 30 seconds.
This product has circle counting down function. If the circle counting down switch is turned on, when the counting down is finished, it will return to the original value to count down again. If the circle counting down switch is turned off, it will change to counting up mode after the counting down is finished.
- Set the counting down timer
 - a) In the counting down mode, press and hold A key for 2 seconds to enter counting down setting mode.
 - b) Press B key to select the following items for setting sequentially:

Hour→Minute→Second→Circle setting

 - c) Press E key to increase 1 in the desired item. Press and hold E key for 2 seconds to advance quickly.
 - d) Press C key to decrease 1 in the desired item. Press and hold C key for 2 seconds to decrease quickly.
 - e) Press E or C key to turn on or off the circle counting down function. ‘ ⌚ ’ will display when turned on, no ‘ ⌚ ’ will display when turned off.
 - f) Press A key to exit.

- The use of counting down function
 - a) Press E key to start counting down.
 - b) During counting down process, press E key to pause. Press E key again to resume the counting down.
 - c) To stop counting down completely, press E key to pause, then press C key to return to the initial set value.
- The use of circle counting down
 - a) Press E key to start counting down.
 - b) During the counting down process, press E key to pause it. Press E key again to resume the counting down function.
 - c) To stop the counting down completely, press E key to pause it, press C key to return to the initial set value.
 - d) When count down to zero, it will return to the initial set value automatically and continue with counting down.
- If the counting down timer is not stopped, the timer will count down continually even the it's menu is exit.

6. Universal time function

- In universal time mode, press A key for 2 seconds to turn on or off Daylight Saving Time. When “DST” is displayed, it indicates that the DST function is turned on. If no “DST” displayed, it indicates that the DST function is turned off.
- Press E key to check up the time zone and time. Press and hold E key for 2 seconds to check up quickly.
- Press C key to check down the time zone and time. Press and hold C key for 2 seconds to check down quickly.
- **The city name order for universal time as below:**
LON→PAR→CAI→JRS→JED→THR→DXB→KBL→KHI→DEL→DAC→RGN→BKK→HKG→
TYO→ADL→SYD→NOU→WLG→PPG→HNL→ANC→LAX→DEN→CHI→NYC→CCS→RIO

Please see the universal time comparison table for detailed city description for universal time, as below:

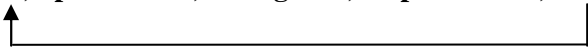
Universal time comparison table:

City code	City	GMT Differential	Other major cities in same time zone
LON	London	+00. 0	Dublin,Lisbon Casablanca,Dakar,Abidjan
PAR	Paris	+01. 0	Milan Rome,Madrid,Amsterdam,Algiers.Hamburg, Frankfurt,Vienna,Stockholm,Berlin.
CAI	Cairo	+02. 0	Athens Helsinki,Istanbul,Beirut Damascus Cape town
JRS	Jerusalem		
JED	Jeddah	+03. 0	Kuwait Riyad,Aden Addis Ababa Nairobi Moscow Shiraz
THR	Tehran	+03. 5	Shiraz
DXB	Dubai	+04. 0	Abu Dhabi Muscat
KBL	Kabul	+04. 5	
KHI	Karachi	+05. 0	Male
DEL	Delhi	+05. 5	Mumbai Kolkata
DAC	Dhak	+06. 0	Colombo
RGN	Yangon	+06. 5	Yangon
BKK	Bangkok	+07. 0	Jakarta,Phnom Penh,Hanoi Vientiane
HKG	Hong Kong	+08. 0	Singapore Kuala Lumpur Beijing Taipei Manila Perth Ulaanbaatar
TYO	Tokyo	+09. 0	Seoul Pyongyang (SEL)
ADL	Adelaide	+09. 5	Darwin
SYD	Sydney	+10. 0	Melbourne Guam Rabaul
NOU	Noumea	+11. 0	Pt Vila
WLG	Wellington	+12. 0	Christchurch Nadi Nauru Is
PPG	Pago Pago	-11. 0	Pago Pago
HNL	Honolulu	-10. 0	Papeete
ANC	Anchorage	-09. 0	Nome
LAX	Los Angeles	-08. 0	San Francisco,Las Vegas,Vancouver,Seattle/Tacoma,Dawson City
DEN	Denver	-07. 0	El Paso,Edmonton
CHI	Chicago	-06. 0	Houston,Dallas/Ft,worth,New Orleans,Mexico City,Winnipeg
NYC	New York	-05. 0	Montreal,Detroit,Miami,Boston,Panam 纽约 a City,Havana,Lima,Bogota
CCS	Caracas	-04. 0	La Paz,Santiago,Pt Of Spain
RIO	Rio De Janeiro	-03. 0	里约热内卢 Sao Paulo, Buenos Aires,Brasilia,Montevideo

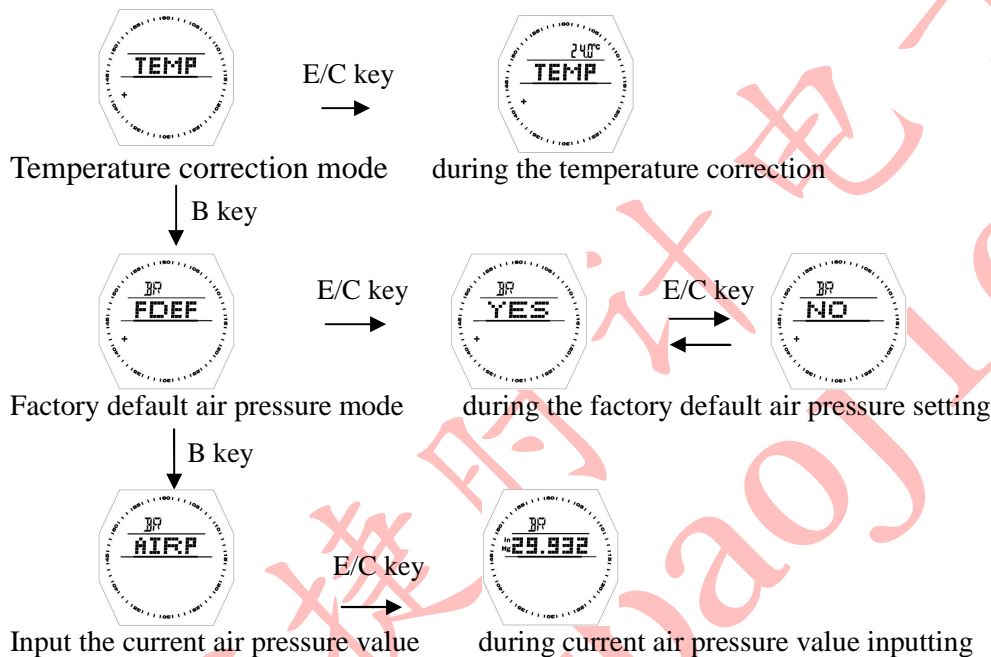
7. Measurement of air pressure, temperature and weather forecast

- In normal time or measurement mode, press E key to enter the air pressure measurement “BARO” directly. After displayed “BARO” for about 2 seconds, it will enter the measurement mode of air pressure, temperature and weather forecast.
- In the measurement mode of air pressure, temperature and weather forecast, press E key for 2 seconds to switch between units of temperature and air pressure, as below:

°C, hpa/mb → °C, Inhg → °F, hpa/mb → °F, Inhg



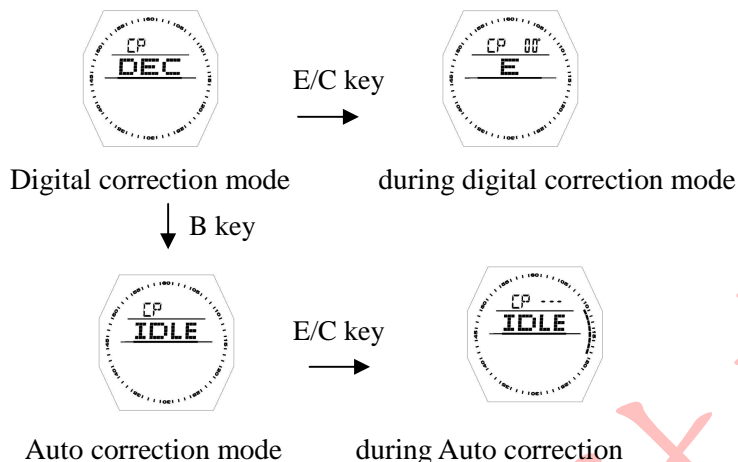
- In the measurement mode of air pressure, temperature and weather forecast, press A key for 2 seconds to enter the correction mode of air pressure and temperature. Press B key to switch the correction items:



- During the setting process, press B key to change.
- In temperature correction mode, press E or C key to switch between “+” and “-” temperature.
- In temperature correction mode, press B key to select the desired set value with blinking. Press E key to adjust the desired set item with 1 increment. Press and hold E key to increase quickly.
- In temperature correction mode, press B key to select the desired set value with blinking. Press C key to adjust the desired set item with 1 descending. Press and hold C key to decrease quickly.
- Factory default air pressure setting:
- In factory default air pressure setting mode, press E or C key to switch between “YES” and “NO” for selecting or not selecting factory default air pressure value.
- Input the current air pressure value mode:
- In the current air pressure inputting mode, press E or C key to enter correction mode, press B key to switch. Press E key to adjust the desired item with 1 increment. Press and hold E key for 2 seconds to increase quickly. Press C key to adjust the desired item with 1 descending. Press C key for 2 seconds to decrease quickly.
- Press A key to confirm the corrected value and return to normal measurement mode.

8. Compass measurement mode

- In normal time or measurement mode, press D key to enter compass measurement mode (COMP). With COMP displayed, electronic needle will sweep two circles clockwise and then enter the compass measurement mode. It will measure in the first 30 seconds and lock up in the last 30 seconds. It will return to clock mode automatically if no keystroke is done.
- In compass correction mode, press and hold A key for 2 seconds to enter correction selection mode. Press B key to change the following:



Digital correction mode

- In digital correction mode, press E or C key to set direction “W” or “E”. After confirm the direction, press B key to select azimuth angle value sequentially. Press E key to set the value with 1 increment. Press C key to adjust the value with 1 descending.
- The maximum correction angle range is $\pm 45^\circ$ (“W” “E” $\pm 45^\circ$).
- Press A key to confirm the corrected value, and return to normal measurement mode.

For example: If you find the direction which is measured by the watch is not correct, please use other compass to measure out the northern direction first, then use “12 hour” of the watch to alignment the northern direction, press D key to measure compass, if the arrow point directon is 5° of west (“W”), you should input “E”(east), then input 5° in eastern direction according to above operation method, to measure compass after press A key to confirm, in the meanwhile, the arrow will point at northern direction, which means correction is complete. If you do not find any other compass to measure out northern direction, please use “IDLE”auto. correction mode as following, but please notice the value must be set as “00” when you select “W” or “E” in the “DEC” digital correction mode.

Auto correction mode

- In auto correction mode, press E or C key, then turn the watch slowly, both clockwise and anti-clockwise are ok. This watch will exit the correction mode automatically and return to compass measurement mode after simply turning two circles in the same direction. During compass correction, after 60 direction points illuminate and go out one by one sequentially, it will confirm this correction automatically. Note: (After replacing the battery, this watch will enter into automatical conrection mode firstly by using the compass first time. In order to correct the compass conveniently, please turning two circles according to the above method.)
- The follow table indicated the meaning of each acronym for each direction.

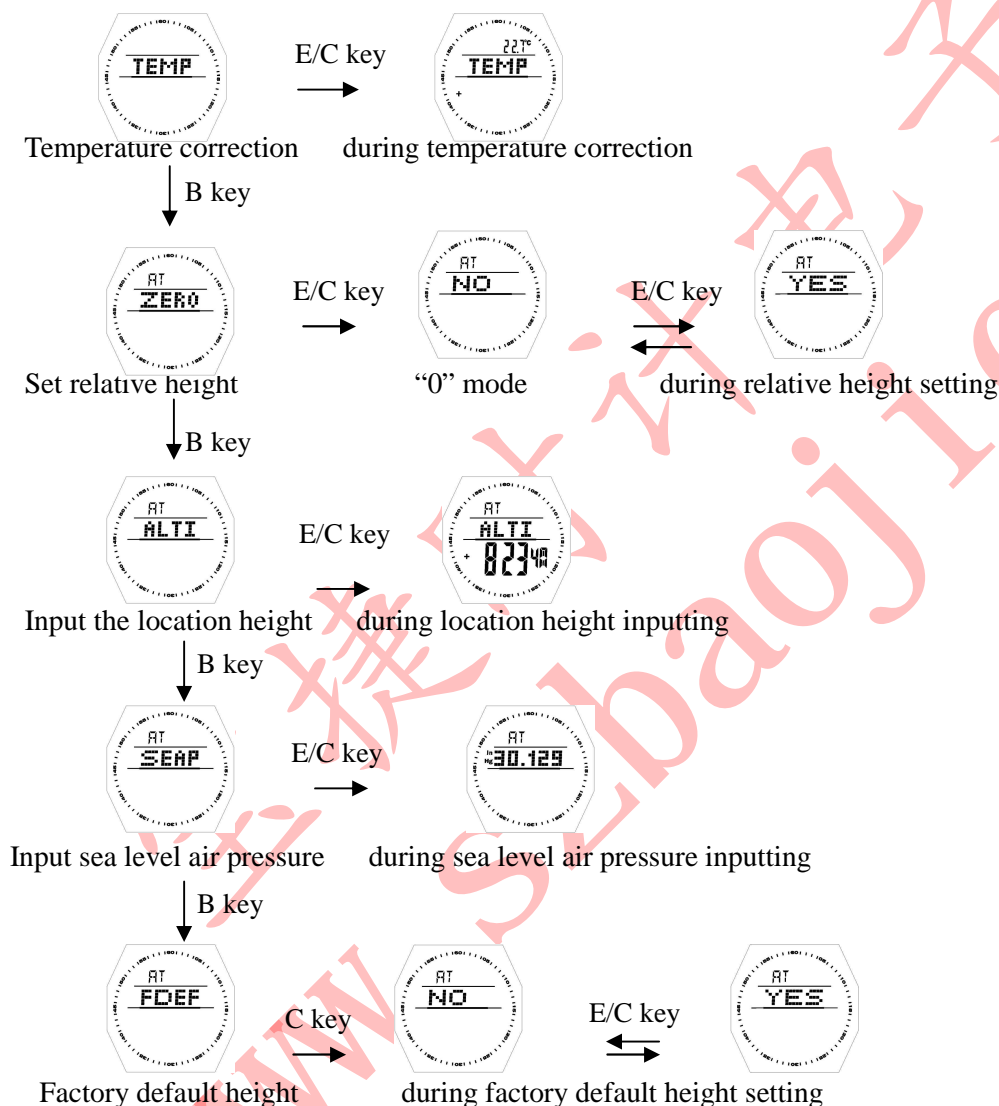
Direction	Meaning	Direction	Meaning	Direction	Meaning	Direction	Meaning
N	North	NNE	North-north-east	NE	North-east	ENE	East-north-east
E	East	ESE	East-south-east	SE	South-east	SSE	South-south-east
S	South	SSW	South-south-west	SW	South-west	WSW	West-south-west
W	West	WNW	West-north-west	NW	North-west	NNW	North-north-west

9. Temperature and height measurement mode

- In temperature and height measurement mode, press C key for 2 seconds to change the units of temperature and height sequentially, as below:

°C, M → °C, F → °F, M → °F, F

- In time or measurement mode, press C key to enter (ALTI) high temperature measurement. After “ALTI” displayed for 2 seconds, it will enter temperature or height measurement mode.
- In temperature or height measurement mode, it will not exit this mode until you exit it by hand.
- In temperature or height measurement mode, press A key for 2 seconds to enter temperature or height correction mode. Press B key to select setting:



- During the setting process, press B key to switch.
- Temperature correction mode**
- In temperature correction mode, press E or C key to switch between “+” and “—” temperature.
- In temperature correction mode, press B key to select the desired item with blinking. Press E key to adjust the desired item with 1 increment. Press and hold E key to increase quickly.
- In temperature correction mode, press B key to select the desired item with blinking. Press C key to adjust the desired value with 1 descending. Press and hold C key to decrease quickly.
- Press A key to confirm the corrected value and return to normal measurement mode.

Set relative height

- Relative height setting (ZERO) mode, press E or C key to switch between “YES” and “NO” for selecting or not selecting relative height as “0”.
- Press A key to confirm the corrected value and return back to normal measurement mode.

Input location height

- In location height inputting mode (ALTI), press C or E key to switch between “+” and “-” height.
- Press B key to select the desired item with blinking.
- Press E key to adjust the value with 1 increment. Press and hold E key to increase quickly.
- Press C key to adjust the value with 1 descending. Press and hold C key to decrease quickly.
- Press A key to confirm the corrected value and return back to normal measurement mode.

Input sea level air pressure mode (height above sea level)

- In sea level air pressure inputting mode (SEAP), press C or E key to enter sea level air pressure inputting status, press B key to change the set value with blinking.
- Press E key to adjust the value with 1 increment. Press and hold E key to increase quickly.
- Press C key to adjust the value with 1 descending. Press and hold C key to decrease quickly.
- Press A key to confirm the corrected value and return back to normal measurement mode.

Factory default height mode

- In factory default value status (FDEF), press E or C key to switch between “YES” and “NO”, indicates selecting or not selecting factory default height. It is the height value which is calculated according to the default sea level air pressure (1013.25mb).

C. Description

- After entering the compass measurement mode, the measurement will stop after 30 seconds. In the last 30 seconds, it will lock up and exit this mode, and then return back to time mode.
- After entering air pressure, temperature and weather forecasting measurement mode, it will measure once every second. And it will return back to time mode if without keystroke operation for 1 minute.
- Entering height and temperature measurement mode, it will measure data once every 5 seconds within first 3 minutes, and measure once every 2 minutes after the first 3 minutes. It will not exit this mode.
- In correction mode, press B key to exit. If displaying “ERROR”, which means correction error. If displaying “DONE”, which means that the correction is correct.
- In setting mode, the set item will blink every 1HZ. It will exit the setting mode if no keystroke operation within 1 minute.
- When above the measurement range, HI will display. When under the measurement range, Lo will display.
- Weather forecast measurement method: estimate the weather every hour (estimate the weather according to the air pressure diversification within the former 4 hours). If air pressure value goes up gradually, it indicates that the weather will turn into better. If the air pressure value goes down gradually, it indicates that the weather will turn into bad. There are 4 kinds of weather status (from good to bad): Fine, Cloudy, Overcast sky, Rain.
- **Notice for Digital compass**
This watch has a magnetic direction sensor, which can detect geomagnetism. That means that the north indicated by this watch is the magnetic north pole, it is a little different from the real North Pole. The magnetic north pole is located in the north of Canada, and the magnetic South Pole is located in the south of Australia. Please note that, when measure using magnetic compass, the more close to the magnetic pole of the earth, the bigger difference between the magnetic north pole and real North Pole. In addition, some maps marked with real North Pole (not the magnetic north pole). Thus when using that kind of maps with this watch, proper adjustment is needed.

➤ Location measurement

When measure direction near a strong magnetic field, a huge error will be created. Thus the following objects shall be avoided when measuring direction: eternal magnet (magnetic necklace), metal block (iron door, metal store ark, etc.), high voltage electrical wire, antenna, home electrical appliance (TV set, personnel computer, washing machine, refrigerator, etc.).

When in the train, ship or plane, etc. the direction can not be measured correctly.

When in doors, especially in a building made up of many metals, the direction can not be measured correctly. This is because the metal structure within the building will absorb the magnetic force from the electrical appliance.

➤ Preservation

If this watch is magnetized, the definition of the direction sensor will be reduced. Thus please don't put this watch in a place near a magnet or any object which gives off strong magnetic force. These objects include: eternal magnet (magnetic necklace, etc.) and home electrical appliance (TV set, computer, washing machine, refrigerator, etc.).

If you doubt that your watch may have been magnetized, please conduct digital correction and manual correction in the "Direction sensor correction".

➤ The reason why the direction measured is incorrect:

If the direction is incorrect, please conduct direction correction. If measure direction near strong magnetic field, such as home electrical appliance, large iron bridge, steel pillar, overhead cable, etc. or measured the direction in a train or ship, it will result in error. Please move away from the large metal object and measure the direction once again. Please note that the digital compass can not be used in train or ship.

➤ Why different results will be produced when measure direction in a same place?

The magnetic force from high voltage cable nearby give interference to the geomagnetic detection by this watch. Please move away from high voltage cable and do detection once again.

➤ Why problem occurs when measure direction indoor?

TV set, personnel computer, speaker or other objects will interfere in the geomagnetic detection by this watch. Please keep away from interferential objects or do detection outdoor. It will be more difficult when do direction detection within a building made of reinforced concrete. Please note that the direction detection can not be conducted in train or plane.

➤ The work principle of hypsometer:

With the height increasing, usually air pressure and temperature will reduce. This watch measure the height according to the international standard air pressure (ISA) made by International Civil Aviation Organization (ICAO). This value defines the relation between height, air pressure and temperature.

Height	Air pressure	Temperature
4000 m	616 hPa/mb	about 8hPa/mb per 100 m
3500 m		
3000 m	701 hPa/mb	about 9hPa/mb per 100 m
2500 m		
2000 m	795 hPa/mb	about 10hPa/mb per 100 m
1500 m		
1000 m	899 hPa/mb	about 11hPa/mb per 100 m
500 m		
0 m	1013 hPa/mb	about 12hPa/mb per 100 m
		about 6.5hPa/mb per 1000 m
14000 ft	19.03 inHg	about 0.15inHg per 200 ft
12000 ft		
10000 ft	22.23 inHg	about 0.17inHg per 200 ft
8000 ft		
6000 ft	25.84 inHg	about 0.192inHg per 200 ft
4000 ft		
2000 ft	29.92 inHg	about 0.21inHg per 200 ft
0 ft		
		about 3.6°F per 1000 ft
		16.2°F
		30.5°F
		44.7°F
		59.0°F

Excerpt from: International Civil Aviation Organization

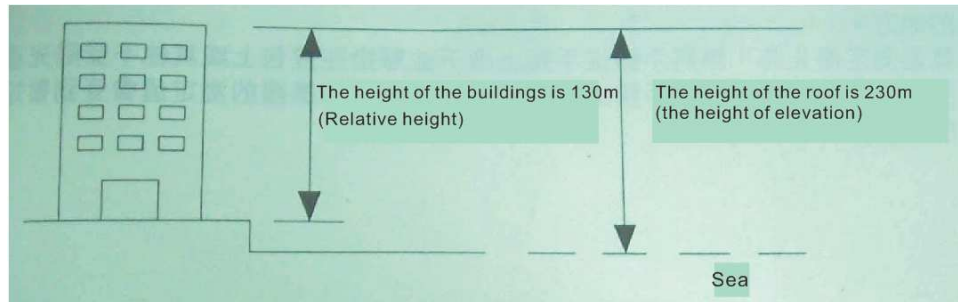
➤ **Note that the veracity of the value measured will be affected in the following situations:**

When air pressure changed with the weather change;

When temperature changed extremely;

When this watch is bumped strongly

There are four kinds of methods to denote height: 1. relative height, 2. location height, 3. height above sea level, 4. Factory default height. The figure below introduces the relative height and height above sea level. Absolute height indicates the height above sea level. Relative height indicates the height difference between two different locations.



➤ **Notes when measure height and temperature at the same time:**

Though the height and air temperature can be measured at the same time, please note that the condition needed in each measurement is different to get the best result. When measure air temperature, you'd better take your watch from your wrist to minimize the affection to the measurement result by your body heat. However, when measure height, you'd better wear your watch on your wrist. Because this can improve the accuracy of the measurement by keeping constant watch temperature.

➤ **The following actions need to be take first before measuring height or temperature:**

When height measurement is priority, please wear your watch on your wrist or put it in a place where your watch temperature can be kept constant.

When air temperature measurement is priority, please take your watch off from your wrist and hang it on your handbag or any place not exposed to direct sun shine. Please note that when take your watch from your wrist, the measurement value of air pressure sensor will be affected temporarily. The air pressure sensor in this watch can be used to measure the change of air pressure for your reference to forecast weather. This sensor is not a precise device for official weather forecast.

The sudden change of air temperature can affect the measurement result of the sensor.

Air temperature measurement can be affected by body temperature (when you wear your watch), direct sun shine and humidity. To get a more exact air temperature measurement, please take your watch from your wrist, put it in a place where does not exposed to direct sun shine and in drafty condition, and wipe the watchcase dry. It will take 20 to 30 minutes for the watchcase to reach actual environmental temperature.

➤ **The work principle of barometer:**

The air pressure reflects the change of atmosphere. Through observing the atmosphere change, you can forecast the weather in a rational veracity range. Atmosphere pressure going up indicates fine weather, but atmosphere pressure going down indicates the weather is turning into bad.

The atmosphere pressure value published in newspaper or reported in television weather forecast programmer is the measurement value after being modified to the value at sea level (elevation is 0 m).

Importance :

In order to restart to correct digital compass automatically, the watch must be turned two circles (put the watch horizontal, left or right side both ok) when use compass function by the first time if you replacing battery every time. The value of air pressure, height, temperature will be set factory default value automatically. Please do not correct the related value at will when there is no high-precision air pressure, temperature or compass as the correction reference point. Please confirm to use (PDEF) factory default value according to operating manual if operating wrong cause the value of air pressure or height is wrong when in use.

C. Specification

- Movement dimension : 35.5*36.6mm±0.1
- Thickness (not excluding buzzer) : 8.1 mm ±0.1
- Working temperature : -10°C~60°C
- Working voltage : 3V
- Time accuracy : ±30 seconds/month(T=25°C)
- Thermometer precision : ±2°C(-10°C~60°C)
- Barometer precision : ±3mb(-10°C~40°C)
- Altimeter precision (altitude ascent every 1000m) : ±5m(-10°C~40°C)
- Digital compass precision : ±11°(-10°C~40°C)
- Battery type : CR2032 (220mAh)
- Static maximum transient current : ≤130u A
- Static average drive current : ≤12 u A (Static maximum drive current: 13 uA)
- Alarm average current : ≤1.0 mA (Alarm Maximum current: 4.5 mA)
- EL lighten average current : ≤9 mA (EL lighten maximum current: 10mA)
- Average current for digital compass operation : ≤0.3mA (Maximum current for digital compass operation: 0.8mA)
- Average current for weather forecast testing : ≤0.12 mA (Maximum current for weather forecast testing: 0.13 mA)
- Average current for air pressure sensor : ≤0.12mA (Maximum current for air pressure sensor: 0.13mA)
- Average current for air pressure and height sensor operation : ≤0.12mA (Maximum current for air pressure and height sensor operation: 0.13mA)
- Battery life term : 18 months (Japan battery)

(According these standards to calculate the battery life: using digital compass thrice each week for 30 seconds each time; air pressure testing should be thrice each time for 1 minute, and height testing should be four hours each time; pressing light four times every day for 3 seconds each time; Alarm once every day for 20 seconds each time.)

Power using for sensor:

- 1) Weather forecast testing automatically once / 2 seconds
- 2) Digital compass operate once for 1 minute,(including sensor operation for 30 seconds sensor operation off duty for the rest 30 seconds)
- 3) Air pressure using once for 1 minute, testing once for 2 seconds within per 5 seconds
- 4) Height testing once / 2 seconds in each 5 seconds during first 3 minutes, height testing once/ 2 seconds in each 2 minutes after 3 minutes.

	Prepared	Checked	Approved
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Date	11/03/15	11/03/15	11/03/15