# Functions:

(1) Press "on/off" button to switch on.

to (2g) will keep as last reading.

pressure measurement).

measurement of altitude.

(5) Switch on/off altitude measurement

preset reterence altitude.

acceleration of increments.

for acceleration of increments.

reference altitude is not in use.

for 3 seconds to switch

"TEMP", "TIME"

"TIME" and "CAL"

(2) Press and hold "on/off"

and "CAL"

,"TJA" ,"OAAA" (ii)

of altitude.

"On" display.

Go to (2a)

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or altitude.

(ii) Display reads "---" It stops the

every 15 minutes (same as the

unit keeps updating the altitude for

(iii) When the measurement is stopped, the

preset value for altitude calculation.

(vi) Should the measurement is switched off, other value in (2a)

Should the measurement is switched off, the unit will still

immediately and update every second immediately.

measurement again. Display reads real time reading

(i) Go to (2a), Press "set" and "-" to switch off the measurement

In order to save battery life, user can switch off the measurement

(viii) If no reference altitude is set and turn off, the unit uses the

(vii) Press "set" to confirm and real time altitude change to the

(vi) Press "-" once to decrease one digit or press and hold "-" for

(v) Press "+" once to increase one digit or press and hold "+" to

(iii) Press "+" or "-" to turn on the reference altitude setting and

(ii) Press and hold "set", "OFF" displays, which representing the

(iv) Press "set" to confirm, real time altitude flashing.

(iv) Press "set" and "-" together in (2a) to switch on the

convert the altitude by the pressure value in every 15 minutes

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and bar graph will also be updated accordingly.

A beep sound occurs indicating the unit is switched on.

LCD display shows all functions for a seconds and then turn to

40/uO (L)

normal mode.

BWILL (viii) weather forecast: show in graphic icon (vii) bar graph

"TEMP", "DIR", TVO

(vi) calendar: shows in d/m with day (or m/d). e.g. 12:0000 am (or 24 hour format).

(v) time: shows and starts time at 12 hour format

(iv) direction: shows in whole circle bearing, e.g. 255°

(or compass bearing e.g. S75W (=255).

temperature: shows in the unit of °C (or °F).

(ii) height: shows in the unit of m (meter) (or ft).

pressure: in the unit of mb (mbar) (or inHg).

In normal mode, the display shows reading of:

"mode" to switch as following:

rime in 5 secs.

(I) GO TO (23)

(i) Go to (2a)

Биюб имор (III)

(II) steady; or →

(I) LISING; OF

(b) Temperature trend

"DIR" (or "TIME") mode.

(1) Press "mode" to TEMP mode.

ascent altitude tested.

whenever one is recommended.

(4) Setting a reference altitude

between m or ft.

(3) Altitude unit switchable

the "TEMP" mode.

(d) High/low altimeter alarm

(i) Go to (2a).

the reference altitude (not the preset value).

(ii) Press together "set" and "+" to switch

To look for TEMP information:

TEMP appears.

(C) Temperature

(3) °C/F switchable

Individually. Display returns to real

(iv) Press and hold "set" to clear memory

(iii) Press "-" to show minimum temperature

tested. "MIN" shows on the display.

tested. "MAX" shows on the display.

(ii) Press "+" to show maximum temperature

(4) Temperature max/min memory recalling

representing the temperature is)

(An arrow shows on the display

(a) Real-time temperature reading; and

Press "mode" again to exit and switch to

(vi) Press "+" and "-" together to return to (2a)

"{ and "V" shows on the display.

reading reset to 0 and start to record the maximum reading.

(v) To Clear the memory, in (Tiv), press and hold "set" the

(iv) Press "-" to show accumulative descent altitude tested.

reading reset to 0 and start to record the accumulative

change in air pressure. Therefore updating the reference altitude

measurements calculated is subjected to error caused by the to-altitude conversion calculation accordingly. The altitude After a reference altitude is set, the unit adjusts the air-pressure-

altitude is used, the unit will calculate relative altitude based on

to convert air pressure reading to altitude values. If a reference

The unit is pre-programmed with preset values, which are used

The altimeter uses the pressure sensor to detect the current air

pressure, which is then used to estimate the current altitude.

To switch between (a) and (g), press "+" and "-" together

(g) Accumulative ascent/descent altitude  $\Sigma_+, \blacktriangle$  or  $\Sigma_+, \blacktriangledown$ 

H▲,♥; H▲, ▲ shittude Afterential altitude ▲, ▲H; ♥.

(e) Current ascent/descent rate in ft/hr or m/hr

(c) Altimeter Trend (past 12 hours reading)

(b) Max/min altimeter memory recalling

(a) Real time altimeter reading in m or ft

Press "mode" again to exit and switch to

ALT appears, Bar graph for the altimeter

(2) ALT mode includes following functions:

trend of previous 12 hours shows.

(1) Press "mode" to altimeter mode.

To look for ALT information:

**Southing (B)** 

(iii) To clear the memory, in (11ii), press and hold "set" the

(2) TEMP mode includes following functions:

To switch between °C and °F.

"+" bress "sether "set" and "+"

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altitude tested. "{" and "▲" shows on the display.

reading reset to 0 and start to record the descent differential

(v) To clear the memory, in (10iv), press and hold "set" the

(iii) To clear the memory, in (10ii), press and hold "set", the

"▲ " to show descent differential altitude reading. "▲ H"

reading reset to 0 and start to record the ascent differential

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(ii) Press "+" to show accumulative ascent

ascent altitude reading. "{" and "▲"

(i) Go to (2g), display shows the accumulative

(vi) Press "+" and "-" together to switch (2g).

altitude reading. "AH" and "A" shows

.▲H and "A" shows on the display.

Go to (21), display shows the ascent

(ii) Press "-" to show current descent rate. ascent rate. "▲ " shows on the display.

(i) Go to (2e), display shows the current

(x) Press "+" and "-" to exit and switch to (2e). delete low alarm set, "LOW" disappear.

delete high alarm set, "HI" disappear; or

reading in other hours within the

past hour with "- 1hr" next to the

pressure reading for the previous

(ii) Press together "set" and "+" to switch

(a) Real-time pressure reading in mb (hPa)

Press "mode" again to exit and switch to

BARO appears, Bar graph for the pressure

trend of previous 12 hours shows.

(1) Press "mode" to pressure mode.

To look for BARO information:

Measurement and Display function

(2) BARO mode includes following functions:

To switch between (a) and (b), press "+" and "-" together

(b) Pressure trend reading (past 12 hours readings)

(i) Go to (2b). Display will show one

(4) Pressure Trend (past 12 hours reading)

between mb (hPa) and inHg.

(ii) Press "+" or "-" to check record of

(ix) To delete low alarm setting, press "set" and "-" in (2d) to

(ivii) To delete high alarm setting, press "set" and "+" in (2d) to

(ivi) Press any key to stop the alarm and "HI" or "LOW" stops

flashing; or it stops automatically after 15 times.

(ii) Press "+" to show ascent differential

differential altitude reading.

(10) Ascent/descent differential altitude

(iii) Press "+" and "-" together

past 12 hours.

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(i) Go to (2a)

or inHg.

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Pressure (A)

(3) Air pressure unit switchable

"
 shows on the display.

and "V" shows on the display.

shows on the display.

sirrude reading.

altitude reading.

on the display.

to return to (2f).

(9) Current ascent/descent rate

(11) Accumulative ascent/descent altitude

on for 15 times. "HI" or "LOW" flashing.

press 100th.

(8) High/low altimeter alarm

12 hours.

"real time reading and shows "HI" or "LOW"

or previous reading shows on the display.

brevious reading shows on the display; or

alarm, "AL" and, "HI" flashes. -700m or

(ii) Press and hold "+" to set and check high

reading in other hours within the past

pour with "- 1hr" next to the reading.

altimeter reading for the previous past

hold "set" the reading reset the memory

(iii) To clear the memory, in (6ii), press and

tested. "MAX" shows on the display.

(i) Go to (2b), display shows the maximum (6) Altitude max/min memory recalling

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(A) ~ (G): "Function" Display

(B)

(E)

Direction of

(ii) Press "+" or "-" to check record of

(i) Go to (2c), Display will show one

(vi) Press "+" and "-" together to (2c).

(7) Altitude Trend (past 12 hours reading)

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(i) Go to (2d), display shows flashes "AL".

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(iii) Press and hold "-" to set and check low

(vi) When the reading reaches the alarm setting, alarm beep turns

(v) Press and hold "set" to confirm and the display returns to (2a)

(iv) To set the alarm, Press "+" or "-" to set the desired alarm

setting. -700m → 9000m → -700m, each press 10th, continue

reset the memory to 0 (a beep sound) and start to record the

(v) To clear the memory, in (6iv), press and hold "set" the reading

(iv) Press "-" to show minimum altitude tested. "MIN" shows on the

to 0 (a beep sound) and start to record the maximum reading.

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(H)

To operate under the scope of the above (i) to (viii), press

(i) "ALT", "OAAA" (i)

# (D) Direction

To look for Compass information: (1) Press "mode" to DIR mode. DIR appears. Press again to exit and switch to "TIME" mode.

- (2) DIR mode includes following functions: (a) Real time direction reading in whole circle bearing or compass bearing (b) Calibration function
- (3) Type of bearing switchable (i) Press "set" and "+" to switch between different types of bearing.

(4) Calibration

(i) In "DIR" mode, Press and hold "set". "CAL" appears. (ii) Turn the unit for 360 degree horizontally. (iii) Press and hold "set" to confirm and

exit to real-time compass.

(5) Sleep mode

(i) When the unit is in the compass mode, it starts to measure and update the direction every second for 1 minute

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(ii) Afterward the display read "---".

(iii) In compass mode, press "set" to reactivate the unit to measure and update the direction every second for 1 minute: or

(iv) Press "mode" to exit and re-enter to the DIR mode again.

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(E) Time	
To look for TIME information:	TIME
(1) Press "mode" to time mode.	1 1
TIME shows on the display. Press "mode" again to exit and switch to "CAL" mode.	L
<ul> <li>(2) TIME mode includes following function:</li> <li>(a) Real time clock</li> <li>(b) Alarm time setting ( ▲ shows on the</li> </ul>	
dianlau)	

(c) Timer (count up and count down): X shows on the display

To switch between (a) to (c) one by one, in TIME mode press together "+" and "-" for each switching.

# (3) 12/24switchable

(i) Go to (2a), (ii) Press together the "set" and "+" to switch between 12/24 time format.

# (4) Clock Set

(i) Go to (2a), press and hold "set" Hour digits flash. (ii) Press "+" or "-" to set hour diaits. Press "set" to confirm. Minute digits flash.

(iii) Press "+" or "-" to set minute digits. Press and hold "set" to confirm and go back to real time mode. Second digits return to 00.

(5) Alarm and snooze On/Off

(i) Go to (2b), press and hold "set" to get into the alarm mode, Hour digits flash. (ii) Press "+" or "-" to set hour digits. Press "set" to confirm.

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Minute digits flash.

(4) Language for Day and Calendar set (i) Go to (2a), "d/m" or "m/d" shows.

- (ii) Press and hold "set", display shows "E " representing English for day showing.
- (iii) Press "+" or "-" to select the language. Display show as following:  $"\mathsf{E}" \to "\mathsf{D}" \to "\mathsf{F}" \to "\mathsf{I}" \to "\mathsf{S}" \to "\mathsf{E}"$ You can select E for English, D for German, F for French. I for Italian or S for Spanish. They are shown in the language chart below.

Language	Day-of-the-week						
Language	Mon	Tues	Wed	Thur	Fri	Sat	Sun
English <b>E</b>	No	Īu	₩E	īX	Fr	SR	Su
German 📱	No	]	MI	Io	Fr	58	50
French <b>F</b>	Lu	MR	ME	36	115	58	II
Italian 🛔	Lu	MA	ME	61	11/2	58	lo
Spanish 5	Lu	MA	<b>A</b> I	Ju	11	SR	lo

- (iv) Press "set" to confirm and month digits flash first. Press "+" or "-" to set month. Press "set" to confirm. Then date digits flash
- (v) Press "+" or "-" to set date. Press and hold "set" to confirm and go back to real time mode.
- (vi) Go to (2b). "vr" shows and 4 places digit shows also.
- (vii) Press and hold "set", the last 2 digits of year flash (the first 2 digits "20" will not flash). Press "+" or "-" to set year from "00" to "59").
- (viii) Press and hold "set" to confirm and go back to real time mode.

(iii) Press "+" or "-" to set minute diaits. Press and hold "set" to confirm.

(iv) When time is reached, A flashes and beeping sound of alarm will last for 1 minute. Press any key to stop the alarm.

· 12: 1028 (v) To get into the alarm with snooze mode. press "set" again, both A & Z<sup>z</sup> flashes.

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· 12:00/28

- (vi) When time is reached, A flashed and stop it by pressing any key. While Z<sup>z</sup> start flashing. Snooze will sound for every 5 minutes and repeat for 5 times. (vii) Press "set" to cancel both function
- mode A & Z<sup>z</sup> (viii) Press "+" and "-" to return to the real time mode.

(6) Timer Set (23:5959) Go to (2c), "X" flashes. Time digits

# (7) Count up

Press "mode" to start count up. (i)

"0:0000" show on the display.

- (ii) Press "mode" to pause/stop and re-start.
- (iii) May press together "+" and "-" to go to other time mode during counting while the "X" flashes during counting.

# (8) Count down

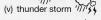
- (i) Press and hold "set". Hour digits flash. Press "+" or "-" to set hour digit. Press "set" to confirm. Minute digits flash. (ii) Press "+" or "-" to set minute. Press "set" to confirm.
- Second digits flash.
- (iii) Press "+" or "-" to set second. Press "set" to confirm. (iv) When setting is confirmed, all digit stop flashing and all are set

# (G) Weather forecast

- To look for Weather forecast (It will be shown on the display by all time. Includes icons of the following)
- (i) sunny :o:

(ii) partly cloudy C> X

(iii) cloudy 💭 (iv) rainy 💭

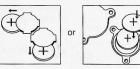


(vi) moon and star \* o

(i) Press "B/L" to turn on the backlight. (ii) Press again to switch off. Or it will turn off

# **Battery Replacement**

(2 x 3 volts "CR2032" size or equivalent) as the direction indicated. Close the cover.



- (v) When all digits are set well. Press "mode" to start count down.
- (vi) Press "mode" to pause and re-start.
- (vii) During counting, may press together "+" and "-" to go to other time function and " $\mathbf{X}$ " flashes during count down.
- (viii) When time is reached, it sounds for 1 minute and digit remain "0:0000". Or press any key to stop beeping when time is reached.
- (ix) Press "mode", the last setting will display. Simply press "mode" again to start count down again.

### (9) Timer clear

(i) In timer " $\mathbf{X}$ " mode, press "**mode**" to pause counting. Then press "set" to clear. Timer digits return to "0:0000"

## (F) Calendar

To look for CALENDAR information: (1) Press "mode" to CAL mode. CAL will appear.



CAL

(2) CAL mode includes : (a) date and month showing (d/m or m/d) with day (b) year showing (2000-2059)

To switch between (a) and (b), press "+" and "-" together.

(3) Switchable d/m or m/d (i) Go to (2a), press together "set" and "+" to switch between "d/m" or "m/d".

CAL	dm	
	4'	18 m

Maintenance/	Precautions

- Do not leave the Main Unit exposed to direct sunlight when the unit is not in use.
- Do not disassemble the Main Unit and sensor.
- · Check relative position of sensor periodically.
- . For cleaning, use neutral detergent on soft cloth, and wipe off later with dry cloth. Do not apply paint thinner, benzine, or alcohol, to avoid damages on the surface.
- If there is mud, sand or clog-like between the button and the body, the movement of the button may be disturbed. Softly wash away such objects with water.

# Specification

### **Air Pressure**

Pressure Range: 300 ~ 1100mb (hPa); 8.85inHg ~ 32.45inHg Resolution: 1 mb/hPa: 0.01inHa Sensing Time: 15 minutes

### Altitude

-700m ~ +9000m; -2296ft ~+29520ft Altitude Range: Resolution: 0.1m for -500.0m to 999.9m; otherwise 1m Sensing time: 2 sec (Sensing time under sleep mode is 15 minutes)

### Temperature

Temperature range: -10°C ~ +60°C or +14°F ~ +140°F Resolution: 0.1°C or 0.1°F Sensing Time: 1 min

## Direction Range:

Unit:

0-359° Resolution: 10 Sensing time: 1 sec for 1 min whole circle bearing, e.g. 255° (or compass bearing e.g. S75°W (=255°)



automatically after 10 seconds.

Backlight