

Mini Digital Altimeter



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This digital altimeter is designed small and delicate with multifunction Including altimeter, barometer, compass, thermometer, weather forecast and time with blue LED screen display. It looks fashion mini and easy to carry.

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Specification:

Altimeter:

- Absolute sea level altitude measurement
- Relative altitude measurement
- Zero clearing function in relative altitude measurement
- Maximum history altitude record in relative Altitude measurement
- Sea level altitude setting directly

Barometer:

- Range from 300mbar to 1100mbar
- Resolution of 1mbar.

Digital Compass:

- 4-bearing mode display
- External magnetic field calibration
- Magnetic declination setting
- High accuracy, ± 3 degrees
- Resolution of + or - 3 degree

Thermometer:

- Thermometer from -10°C to $+60^{\circ}\text{C}$
- $^{\circ}\text{C}$ or $^{\circ}\text{F}$ selectable.
- Resolution of 1°C .

Weather forecast:

- The weather forecast for next 12 to 24 hours
- 4 weather status indicating,
Sunny-Slight sunny-Cloudy-Rain

Time:

- Time with hour, minute, second
- 24h format clock display

Backlight:

- 5 seconds super bright LED backlight.

◆ Altimeter

1. Absolute altitude:

Press MODE to enter absolute altimeter mode, absolute and ALTI will be displayed on screen. Under this mode, hold MODE two seconds, the altitude can switch M or FT. Press ALTI to exit this mode.

As the absolute altitude is calculated from the air pressure the change of air pressure would affect the altitude reading. To achieve a more accurate reading, the user can set the sea level altitude directly.

2. Relative altitude:

Under time mode, press ALTI can enter into relative altimeter mode. Relative and ALTI will be displayed on screen. The altitude is tested continuously under this mode.

To Set The Relative Altitude To Zero

Press MODE two seconds, the relative altitude will be returned to zero to test again. Press MODE shortly, the altitude can switch M or FT. Press ALTI to exit this mode.

PS . Under relative altimeter mode, the highest absolute altitude will be recorded. When long press MODE to return zero, the record of highest absolute altitude will be returned to zero too.



◆ Barometer

Press MODE to select barometer mode, BARO will be displayed on screen. Press ALTI to exit this mode.



◆ Thermometer

Press MODE to select thermometer mode, TEMP will be displayed on screen. Press ALTI to exit this mode.

Units switch: Under this mode, press MODE two seconds, the temperature can switch °C or F.



◆ Digital compass

Press MODE to select digital compass mode, COMP will be displayed on screen. Weather forecast, compass direction, angel, and 4 bearings will be displayed on screen too. The clockwise order of 4 bearings are east, south, west and north. Three points on screen indicate north.

PS. For example “ENE” display, the 1st “E” shows that your target direction approaches East. 2nd and 3rd “NE” shows that the target direction is between North and East. “72” shows that the clockwise angel between target direction and three-indicator is 72.

Remark: “N” -----North, “W” ----- “West”, “S” ----- “South”, “E” ----- “East”. The straight ahead is your target direction.



◆ Time

• Time Display:

It is time display when electricity is laid on. Weather forecast will be displayed on the top, hour and minute will be displayed at the middle and second will be at the bottom.

• Weather forecast display:

The initial state defaults to cloudy. Weather forecast have four states,



 sunny  cloudy  overcast  rain

◆ User Setting

Under Time mode, long press MODE two seconds to enter into user setting mode. Under this mode there will be a cycle include maximum history altitude browse, time setting, sea level altitude setting, weather forecast setting, magnetic declination setting and compass calibration etc. Keep 20 seconds it will return back to original mode automatically when finish setting. You can also long press MODE again to return back.

- **Maximum history altitude browse:** there will be words of “absolute” and “H” on screen.
- **Time setting:** Press MODE to select object, the object will be flash. Press ALTI to set them.
- **Sea level altitude setting:** Press MODE to enter this mode, there will be words of “absolute” on screen. Press MODE to select object, the object will be flash. Press ALTI to set them.
- **Weather Forecast Setting:** Press MODE to enter this mode, Press ALTI to set the weather according the actual weather.

Remark:

1. Don't set it at raining day.
 2. Don't set it night.
 3. The accuracy is about 70% to 75%.
 4. Weather forecast only forecast coming 12 hours to 24 hours weather, it is not current weather.
- **Magnetic declination setting:** Press MODE to enter this mode, press ALTI to set.
PS: “Cb” means magnetic declination. It is range from “-30” to “30”. Please set magnetic declination according the local magnetic declination.

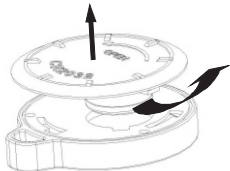
- **Compass calibration:** Compass should be calibrated when the point is not accurate or the battery is changed.

PS 1. Press MODE to this mode, there will be words of "CAL" on screen. Press ALTI to set them.

PS 2. When start calibrate, in the middle of screen there will be a angel degree which is the clockwise angel of north to target direction. Turn around compass slowly now, the angel degree will be changed one degree by one degree. 0, 90, 180, 270 four angels data be collected means finish to turn a circle. Then it will go to compass mode automatically. "CAL" will be disappear. It means we calibrate it successfully. Otherwise it means failure. Then you should turn around compass again till finish calibration.

◆ **Backlight:** Press ALTI 2 seconds to open backlight at every mode. It will be closed in 5 seconds automatically.

◆ **Battery:**
When there is a symbol "", please replace new battery.
Battery replace: replace with new battery according to this icon as follows:



◆ Remark:

- 1.CR2032 battery should be nonmagnetic battery, otherwise it will influence the precision.
- 2.Don't use under strong magnetic field.
- 3.Don't use near strong magnetic objects such as electromagnetic oven, Motor and magnet.
- 4.Keep it dry, don't make damp and avoid raining.
- 5.Avoid use under too high or low temperature.
- 6.Don't collide, press hard to avoid damage modules.

◆ Trouble Shooting:

Answer: What's the difference of press MODE or press ALTI to enter altimeter mode?

Reply: Press MODE to enter altimeter mode, the absolute altitude will be displayed on screen. Press ALTI to enter altimeter mode, the relative altitude will be displayed on screen. It will collect data every 5 seconds.

Answer: How to measure a climb altitude?

Reply: Under relative altitude mode, press mode long time to return to zero, then the measure altitude is climb altitude.

Answer: Why the result will be changed at the same altitude when measure the relative altitude?

Reply: This altimeter measure altitude according the atmospheric pressure. But the atmospheric pressure changes at any time, altimeter will take this change as a vertical movement. So there will be one to three meters changed at the same altitude.

Answer: Why the compass pointer result has a big difference at the same place?

Reply: Please confirm whether calibrate compass according manual when start use or change use method. Please avoid use compass under strong magnetic field.

◆APP. Magnetic Declination At Major Cities:

No.	Country/Place	Major City	Declination	No.	Country/Place	Major City	Declination
1	Afghanistan	Kabul	2	33	Netherlands	Amsterdam	-1
2	Australia	Canberra	12	34	New Zealand	Wellington	22
3	Austria	Vienna	2	35	Norway	Oslo	0
4	Bahrain	Manama	2	36	Pakistan	Islamabad	2
5	Bangladesh	Dhaka	0	37	Philippines	Manila	-1
6	Belgium	Brussels	-1	38	Portugal	Lisbon	-5
7	Brazil	Brasilia	-19	39	Russia	Moscow	9
8	Canada	Ottawa	-14	40	Singapore	Singapore	0
9	Chile	Santiago	-5	41	South Africa	Cape Town	-23
10	China	Beijing	-6	42	Spain	Madrid	-3
11		Hongkong	-2	43	Sweden	Stockholm	3
12	Costa Rica	San Jose	0	44	Switzerland	Bern	0
13	Cuba	Havana	-3	45	China	Taiwan	-3
14	Czech Republic	Prague	2	46	Thailand	Bangkok	0
15	Denmark	Copenhagen	1	47	UAE	Abu Dhabi	1
16	Egypt	Cairo	3	48	United Kingdom	London	-3
17	Finland	Helsinki	6	49	United States	Washington DC	-10
18	France	Paris	-1	50		Juneau	25
19	Germany	Berlin	1	51		Phoenix	12
20	Greece	Athens	3	52		Little Rock	2
21	Hungary	Budapest	4	53		Sacramento	16
22	India	New Delhi	1	54		Denver	10
23	Indonesia	Jakarta	1	55		Atlanta	-4
24	Israel	Jerusalem	3	56		Honolulu	10
25	Italy	Rome	1	57		Boston	-16
26	Japan	Tokyo	-7	58		Saint Paul	2
27	Jordan	Amman	3	59		Jackson	1
28	Kenya	Nairobi	1	60		Santa Fe	10
29	Korea	Seoul	-7	61		Oklahoma City	6
30	Malaysia	Kuala Lumpur	1	62		Salem	18
31	Mexico	Mexico City	6	63		Harrisburg	-11
32	Nepal	Katmandu	0	64		Salt Lake City	14