



ENGLISH

TERRAFOD

Congratulations on the purchase of your TERRAPOD Handheld Altimeter with Barometer and Compass. This unit is a very useful product for any outdoor activity. Equipped with altimeter, barometer, compass, temperature, weather forecast, clock and alarm functions makes it the perfect companion for any user who wishes to venture into the great outdoors. In addition, its ergonomic design allows you to carry it around securely wherever you go.

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GENERAL

Water resistant up to 33 feet / 10 meters / 1 Atmosphere / 1 Bar

Shock resistant up to 3 feet / 1 meter

ALTIMETER

Range: -1312 to +29,520 feet (-400 to +9,000 meters)

Resolution 3 feet / 1 meter

THERMOMETER

Operating temperature: 23°F to 122°F (-5°C to 50°C)

Thermometer measuring range: 23°F to 122°F (-5°C to 50°C)

Resolution: 0.2°F / 0.1 °C

COMPASS

Resolution of 1 degree

Rotating digital bezel in quarter cardinal points

BAROMETER

Range: 8.86 inHg to 32.48 inHg or (300 to 1100 mbar / hPa)

Resolution: 0.01 inHg or 1 mbar / hPa

ALARM MODE

24 Hour alarm

OTHER SPECIFICATIONS

Two CR2032 Lithium Batteries

Storage Temperature: 14°F to 158°F (-10°C to 70°C)

Product Care Cautions, Notes and Warnings

CAUTION: The measurement functions built into this unit are not meant to substitute professional measurement or industrial precision devices. Values produced by this device should be considered as reasonable representations only.

CAUTION: Your instrument is designed to be water resistant to a static pressure of 33 feet / 10 meters / 1 Atmosphere / 1 Bar. This unit is suited only for accidental contact with splashes of water.

NOTE: Units of meters and feet that indicate a pressure rating do NOT equal the recommended depth for scuba diving.

NOTE: One atmosphere (ATM) or Bar of pressure, is equivalent to the pressure exerted on a static object lying in a depth of 10 metres (1 ATM or Bar equals 10 meters).

DO NOT use your TERRAPOD in a soapy dish water or bubble bath. The alkali contained in soaps can damage the rubber seals.

DO NOT use your TERRAPOD in a hot tub or extremely hot shower or bath. High temperatures and steam can damage the rubber seals.

DO NOT expose the unit to sudden changes of temperature by going from a hot tub to cold water. This can make the rubber seals contract and allow water to penetrate.

NEVER push the buttons underwater, when the unit is wet or when you are cleaning or rinsing the unit. You are actually pushing water inside the unit.

Product Care Cautions, Notes and Warnings

ALWAYS rinse the unit with clear tap water after exposure to salt water. Salt is highly corrosive and can damage both the rubber seals and the unit case.

LIGHT COLOR plastics will change color over time as a result of dirt and surface friction. You should clean light plastics with a damp cloth often to preserve the color as long as possible.

DO NOT use cleaning solvents to clean your unit. Solvents WILL damage the integrity of the plastic.

WARNING: This product is NOT designed to be used as a PRIMARY altitude instrument for flying, skydiving, hang gliding or other sports where sudden major changes in altitude may occur or when there is a need for industrial precision.

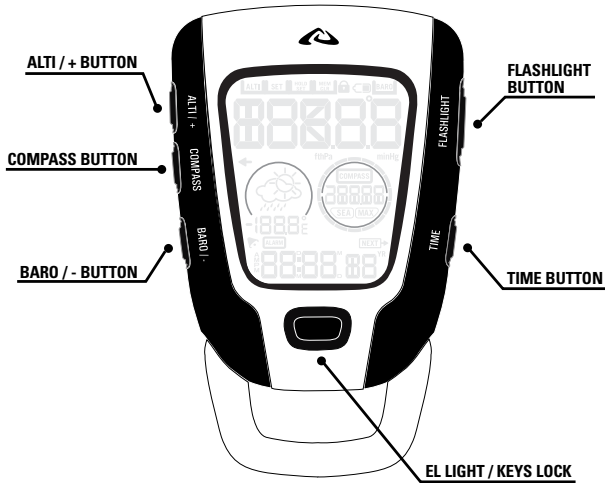
BE SURE to calibrate your digital compass often - especially before hiking or orienteering adventures. Daily use around household appliances and magnetic fields WILL affect the compass. We do not want to lose you on the trail. **When orienteering, always bring an analog compass to ensure multiple direction readings and accuracy.**

CAUTION: Exposure to strong magnetic fields WILL cause the compass unit to malfunction and may even permanently damage the compass sensor. Keep the unit away from magnetic sources.

NEVER attempt to disassemble or service the unit. This will void any warranty.

Detailed warranty information is available online at www.highgear.com

TERRAPOD Buttons



TERRAPOD Modes

Press **TIME** to switch between:



TIME Mode

12 / 24 Hour Time Display
Hour, Minute, Day



DATE Mode

Day, Month
Day-Month / Month-Day Display



ALARM Mode

12 / 24 Hour Time Display
Hour, Minute, Day

Press **ALTI / +**, **COMPASS**, **BARO / -** to switch between:



ALTIMETER Mode

Altitude Display
Imperial / Metric Units
Maximum Possible Altitude



COMPASS Mode

Degrees Due North
Cardinal Points



BAROMETER Mode

Sea Level Pressure Display
Imperial / Metric Units

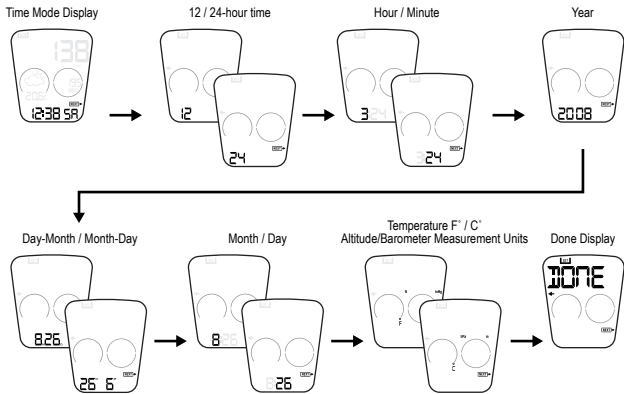
TIME / DATE Mode Settings

Setting TIME on your unit

1. Press TIME to navigate to TIME mode.
2. Press and hold TIME to enter settings.
3. Press ALTI / + or BARO / - to change setting.
4. Press TIME to confirm and move to the next setting.

The setting options are as follows:

5. Press TIME to confirm.



NOTE: If no key is pressed for 30 seconds, the display will return to previous mode.

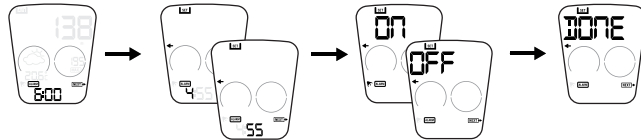
ALARM Mode Settings


Setting ALARM on your unit

1. Press TIME to navigate to Alarm mode.
2. Press and hold TIME to enter settings.
3. Press ALTI / + or BARO / - to change setting.
4. Press TIME to confirm and move to the next setting.

The setting options are as follows: hour; minute; alarm ON / OFF.

5. Press TIME to confirm.



NOTE:  Indicates that the alarm has been activated.

NOTE: When the alarm clock is activated, it will sound at the set time every day. Press any button to stop the alarm for that day. The alarm clock is still active and will set off again the following day.

COMPASS Mode Display

Operating the COMPASS

The compass shows the bearing in degrees due North together with 16 cardinal points. The outer circumference of the display consists of 16 segments that graphically indicate North. The last lit segment indicates North as shown below.

To view COMPASS, press COMPASS to navigate to the COMPASS mode.

When using the COMPASS feature keep in mind the following:

- The compass display is active for 30 seconds at a time. After this, the display will go back to the previous mode.
- Always take bearings in the open air, not inside buildings, tents, caves, or other shelters.
- Compass readings should be performed away from magnetic materials. Avoid large magnetic objects, power lines, loudspeakers, electric motors etc.

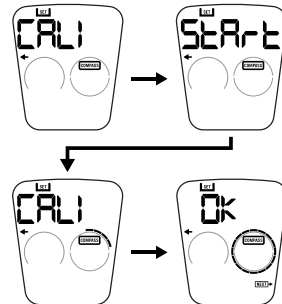
COMPASS Sensor Calibration

Before the compass is first used, we recommend that you calibrate the compass sensor.

IMPORTANT: For best results, the compass must be calibrated on a flat, horizontal surface. If a flat surface is not available during calibration, the unit must be held perpendicular to your body.

To calibrate the compass sensor:

1. Press COMPASS to navigate to the COMPASS mode.
2. Press and hold COMPASS to enter settings mode.
3. Press ALTI / + or BARO / - to navigate to Calibration mode.
4. Press TIME to begin calibration of the COMPASS.
5. Rotate the watch counter clockwise at the same speed as the moving segments around the circumference of the display. The rotation will be finished once you have performed 1 1/4 turns and the display will appear as shown in the graphic shown in this page.



The COMPASS should be calibrated:

- Before you use it for the first time.
- When the battery is replaced.
- Before you leave for an extended outdoor activity.
- Whenever it is exposed to strong magnetic sources, extreme cold, or you suspect that other environmental conditions have affected the compass readings.
- If you notice that the compass is not showing the direction correctly.

What is Magnetic Declination?

A magnetic compass points to the earth's magnetic north pole. Depending on your location, this may differ from True North. Adjusting the magnetic declination allows you to compensate for this variation. Magnetic declination for an area can be found on topographical maps. Declination can range over time and distance. Make sure the source for your declination setting is up to date. The following websites are good sources for finding up to date local magnetic declination readings.

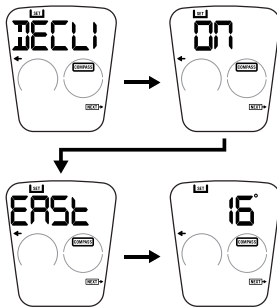
http://www.gsc.nrcan.gc.ca/geomag/field/mdcalc_e.php

<http://www.ngdc.noaa.gov/seg/geomag/jsp/Declination.jsp>

NOTE: If you do not have a declination reference, leave the declination setting at the default, ZERO.

Setting the Declination

1. Press COMPASS to navigate to COMPASS mode.
2. Press and hold COMPASS to enter settings mode.
3. Press ALTI / + or BARO / - to navigate to DECLINATION mode.
4. Press TIME to confirm and move to the next setting.
5. Press ALTI / + or BARO / - to change setting. The setting options are as follows: ON / OFF; WEST/EAST (only if ON is selected); degree of declination angle.
6. Press TIME to confirm.



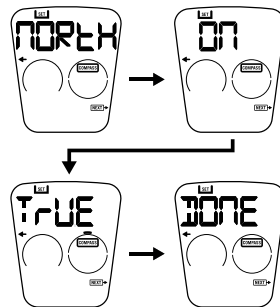
NOTE: Press COMPASS anytime to quickly exit.

True North Calibration

When you do not know the declination angle, the true north calibration function can be used to compensate for the difference between magnetic and true north. All you need to know is the direction of true north (this can be found from landmarks in your immediate vicinity). Setting the true north calibration makes the compass reading more accurate.

To set True North calibration:

1. Press and hold COMPASS to enter settings mode.
2. Press ALTI / + or BARO / - to navigate to North mode.
3. Press TIME to confirm and move to the next setting.
4. Press ALTI / + or BARO / - to change setting. The setting options are as follows: ON / OFF; point to true north.
5. If ON is selected, point the unit in the True North direction and press TIME.
6. Press TIME to confirm.



NOTE: Press COMPASS anytime to quickly exit.

WARNING: If the declination angle is turned ON, the True north function will automatically turn itself OFF and vice-versa.

ALTIMETER and BAROMETER Modes

About the ALTIMETER-BAROMETER

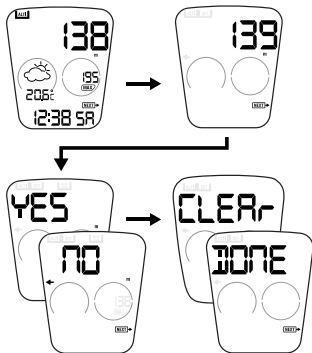
The altimeter measures altitude in either metres or feet. The device is equipped with an intelligent barometer that determines altitude by the built-in sensor with the advanced barometer compensation technology. It also distinguishes the differences between pressure caused by the changes in physical altitudes and pressure caused by weather conditions. This eliminates discrepancies and makes the altimeter more accurate than most of the average devices available on the market. Maximum altitude and instant sea level pressure readings are also provided.

How to set and reset the ALTIMETER

The altitude is automatically measured from the moment you switch on the device. It will supply you with both barometer readings as well as the maximum sea level pressure readings.

To set and reset altimeter:

1. Press ALTI / + to navigate to altimeter mode.
2. Press and hold ALTI / + to enter settings.
3. Press ALTI / + or BARO / - to change setting.
4. Press TIME to confirm and move to the next setting. The setting options are as follows: adjust altitude; reset maximum altitude.
5. Press ALTI / +; choose NO to keep maximum altitude recorded or YES to reset memory data.
6. Press TIME to confirm.



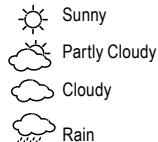
ALTIMETER and BAROMETER Modes

How to set SEA LEVEL PREASSURE and WEATHER icons

1. Press BARO / - to navigate to barometer mode.
2. Press and hold BARO / - to enter settings.
3. Press ALTI / + or BARO / - to change setting.
4. Press TIME to confirm and move to the next setting. The setting options are as follows: adjust sea level pressure; toggle weather forecast icons.
5. Press TIME to confirm.


NOTE: When sea level pressure is changed, the altitude will adjust itself accordingly.


Weather Forecast Icons



How to activate the BACKLIGHT / KEYPAD LOCK / LED light

1. Press the EL LIGHT / KEYS LOCK button lock to turn backlight ON for 3 seconds.

NOTE: The backlight and LED functions will not operate while the low battery icon  is displayed and it will return to normal once battery has been replaced.

2. To toggle keypad lock ON / OFF.
3. Press and hold EL LIGHT / KEYS LOCK button for 2 seconds.
 indicates keypad is locked.
4. To turn on the LED Light press the FLASHLIGHT button.

NOTE: Always use an accurate source when adjusting the Altimeter or Barometer modes. If you set any of the units incorrectly or extremely far away from the actual readings, all measurements in this mode will be highly inaccurate.

NOTE: Never adjust the ALTIMETER/BAROMETER inside a pressurized environment like an airplane, air conditioned or heated room.

WARNING: Never adjust the ALTIMETER/BAROMETER while you are traveling at high speeds like inside a moving car or skiing down the mountain. Not only will the measurements be highly inaccurate, hitting a tree can really hurt bad!

NOTE: The weather forecast cannot be active while altitude is displayed on the unit. You must scroll to a view that does not have altitude to ensure an accurate forecast.

NOTE: If you use the unit on a daily basis in TIME, ALTIMETER/BAROMETER mode with altitude display, you must scroll to a view without altitude to begin the forecasting process. This process takes 12 hours.

NOTE: Daily use inside a moving car or pressurized room will affect the forecast. The forecast is designed for extended outdoor use.

How to replace the batteries on your TERRAPOD


If you need to replace the battery, we highly recommend you contact the retailer or our customer service department.

To replace battery:

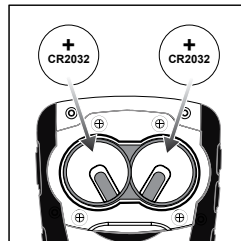
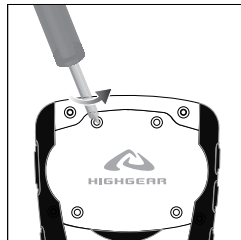
1. Use a Phillips screwdriver to unscrew the lid of the battery compartment.
2. Remove the old battery and insert the new one matching the polarities.
3. Carefully, remove the plastic battery cover by turning it counter-clockwise.

NOTE: Before replacing the lid make the rubber gasket is seated properly in the molded groove.

4. Replace the lid using a Phillips screwdriver, screw until firmly in place.

NOTE: When battery is replaced it is important to re-calibrate the  compass's magnetic sensor.

NOTE: While the low battery icon is displayed, instant altitude, maximum altitude, air pressure, sea level pressure, temperature and compass values show "--". It will return to normal once battery has been replaced.



Care and Precautions

To ensure you use your product correctly and safely, read these warnings and the entire user manual before using the product:

- Use a soft, slightly moistened cloth to clean the unit. Do not use abrasive or corrosive cleaning agents, as these may cause damage. Use luke warm water and mild soap to clean the unit thoroughly after an outdoor trip. Never use the products in hot water or store them when wet.
- Do not subject the product to excessive force, shock, dust, temperature changes, or humidity.
- Never expose the product to direct sunlight for extended periods. Such treatment may result in malfunction.
- Do not tamper with the internal components. Doing so will terminate the product warranty and may cause damage. The main unit contains no user-serviceable parts.
- Do not scratch hard objects against the LCD display as this may cause damage.
- Take precautions when handling all battery types.
- Remove the batteries whenever you are planning to store the product for a long period of time.
- When replacing batteries, use new batteries as specified in this user manual.
- The product is a precision instrument. Never attempt to take this device apart. Contact the retailer or our customer service department if the product requires servicing.
- Do not touch the exposed electronic circuitry, as there is a danger of electric shock.
- Check all major functions if the device has not been used for a long time. Maintain regular internal testing and cleaning of your device. Have your watch serviced by an approved service center annually.
- When disposing of this product, do so in accordance with your local waste disposal regulations.
- Due to printing limitations, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.

NOTE: The technical specifications for this product and the contents of the user manual are subject to change without notice.

Troubleshooting

The unit is a very sensitive and sophisticated instrument. If properly cared for it should last and remain accurate for many years. However, from time to time problems may happen. It has been our experience that the majority of the problems seen by consumers with products such as these are related to dead or dying batteries.

While the estimated life of a fresh battery in the unit is approximately one year, this can be shortened considerably if the compass, altimeter or EL systems of the unit are used extensively. Whenever you are experiencing issues related to the function of the unit it is recommended that you install a fresh battery as a first course of action, especially if it has been more than a half a year since the last time the battery was replaced.

BE AWARE – Lithium batteries of the type used in this unit are very susceptible to improper storage. Many times, batteries purchased as new are dead or weak before they are purchased. Do not assume that batteries in stores are good. If you try a new battery and problems persist, please try a second battery from another source, just to be certain.

Indications of a weak battery are:

1. A fading or blank display.
2. If the display goes blank when the EL system is operated and then comes back on when the EL system turns off.
3. Inaccurate readings from the Altimeter or Compass systems

Because the compass is magnetic it may be effected by local sources of electromagnetic radiation (EMI). Avoid using near appliances, in cars, near home security systems and other sources of EMI.

The unit is equipped with a display which allows it to be used in a wide variety of environments. However, if the unit is used in extreme cold (<32 F or 1c) the function of the display may be slower than normal. If exposed to extreme heat or cold, the display may also darken. The display should return to normal once the temperature returns to normal levels.

