BRUNTON®

NOMAD G3-PRO

Instruction Manual

BRUNTON

Thank you for purchasing your new NOMAD G3-PRO. This weather isntrument is finely tuned to enchance the safety and performance of your outdoor experience. Useing precise sensors, the NOMAD G3-PRO measures and calculates atmospheric conditions like temperature, barometric pressure, altitude, as well as giving general weather forecast and compass bearing. It also includes such features as clock, daily alarms, chronograph, timer, pace stter, and dual time functions. Please read and fully understand the use and limitations of your NOMAD G3-PRO before rely-ing on it in the field. This user guide will help you to optimize the performance of your new instrument.

Please be aware of the following advisories and precautions when using your new NOMAD G3-PRO

Avoid prolonged exposure to extreme cold, heat and moisture.

Take care to avoid severe impacts or drops.

Your NOMAD houses precision sensors. Do not attempt to disassemble.

If NOMAD gets dirty in use, clean with a soft, damp cloth.

Avoid prolonged exposure to magnets or appliances that contain magnets such as speakers, motors and electronics.

Avoid contact with bug spray or sunscreen containing DEET. This can soften the plastic and affect the clarity of the lens.

Mode Button [M]

- Selects between timekeeping modes including current time, daily alarm, chronograph, timer, pacer and dual time modes
- Press mode [M] to cycle between timekeeping displays.

Sensor Button [SR]

- Press sensor [SR] to cycle between altimeter, barometer and compass modes.

Start/Stop Button [S/S]

- Cycles between different funtional displays under certain modes. Example: press to change between temp, sea level pressure and barometric pressure graph while in the barometer screen.
- Activates start/stop in timer and chronograph modes.
- Increases digits/units in the setting/callibration mode.

Lap/Reset Button [L/R]

- Hold to reset the 'lap' when in the chronograph mode.
- Press to change timer durationi in timer mode.
- Decreases digits/units in the setting/callibration mode.
- Cycle cursor left in the history recall display

EL Button [EL]

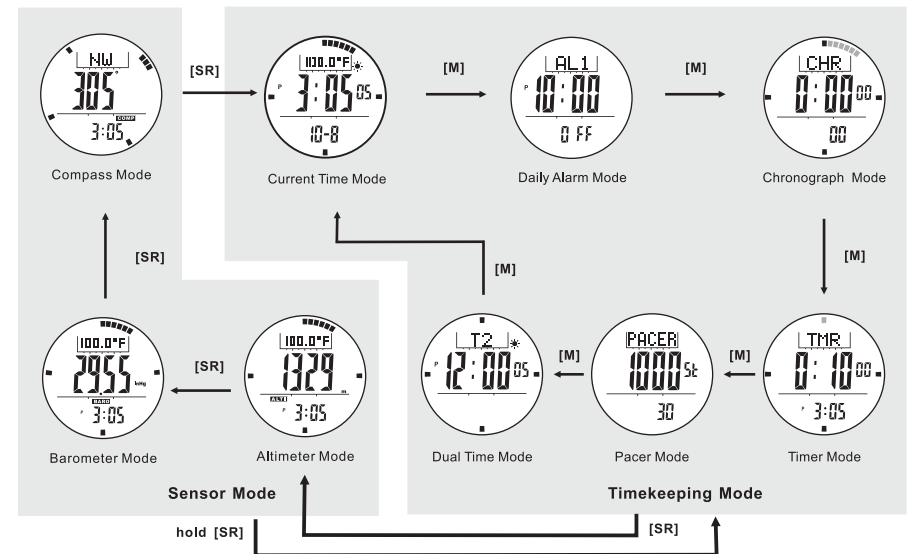- Press to illuminate the back light for approx 3 seconds.

Note

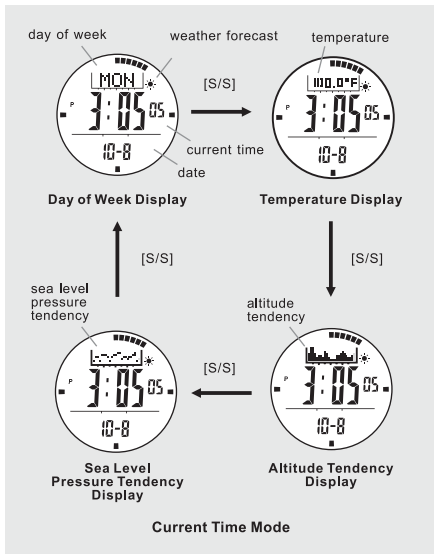Press any button to activate your NOMAD under the power save mode.

Sensor [SR]
Start/Stop [S/S]
Mode [M]
Lap/Reset [L/R]
Light [EL]

Compass Mode — [SR] → Current Time Mode — [M] → Daily Alarm Mode — [M] → Chronograph Mode

Barometer Mode — [SR] ← Altimeter Mode — Dual Time Mode — [M] ← Pacer Mode — [M] ← Timer Mode

[SR] [M] [M]

Sensor Mode **Timekeeping Mode**

hold [SR] [SR]

Day of Week Display   **Temperature Display**

day of week   weather forecast   temperature

[S/S]

current time

date

[S/S]

sea level pressure tendency

altitude tendency

[S/S]

[S/S]

Sea Level Pressure Tendency Display   **Altitude Tendency Display**
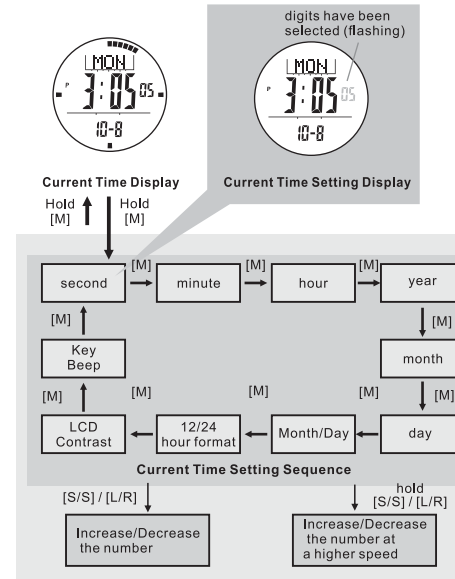
Current Time Mode

Function Display

The current time mode includes four options of function displays including the day of the week, temperature, altitude graph, and sea level barometric pressure graph.

To toggle between different function displays, press the [S/S]buttong following the adjacent diagram.

Note: Temperature readings can be affected by your body's own heat, and hold the unit will result in higher temperature readings. For ambient air temperature readings, let the unit sit for about ten minutes before taking the reading.

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digits have been selected (flashing)

Current Time Display   **Current Time Setting Display**

Hold [M]   Hold [M]

Current Time Setting Sequence

second → minute → hour → year

Key Beep ← [M]

month

LCD Contrast ← 12/24 hour format ← Month/Day ← day

[S/S] / [L/R] → Increase/Decrease the number

hold [S/S] / [L/R] → Increase/Decrease the number at a higher speed

How to set the current time

- To enter the setting mode, press and hold the [M] button while on the time screen for about two seconds until the word 'set' is flashing at the top of the display.

- In the setting mode, press the [M] button to change the adjustable selection following the the sequence in the adjacent diagram.

- With the 'seconds' are selected (flashing), press the [S/S] button to reset the value to "00."

- When subsequent values are selected (flashing), press the [S/S] or [L/R] button to increase/decrease the value respectively. Hold the button to change the numbers at a faster pace.

- You have the option to display the date in either month/day or day/month format. Press the [S/S] button to change between the options. You can also choose for the clock to display in 12 or 24 hour format. Press the [S/S] button to change beween the two options.

- The LCD contrast can be increased using the [S/S] button or decreased using the [L/R] button. When the beep/chime option is displayed, press [S/S] to turn it on/off.

- When the setting is complete, press and hold the [S/S] button to exit the setting mode.

Sunny   Cloudy with sun

Cloudy   Raining

MON   MON

MON   MON

MON   MON

Weather Forecast Symbols
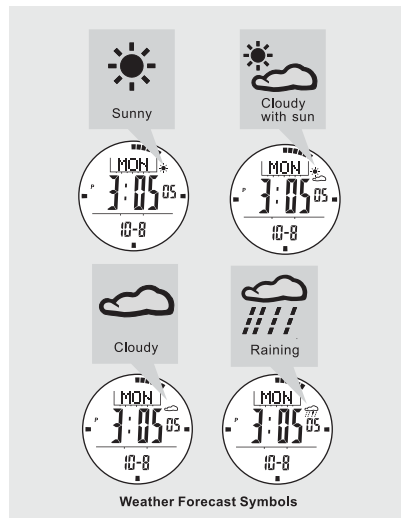
The NOMAD G3-PRO features weather tracking and forecasting icons using changes to the current and past air pressure trends. The symbols are only shown in the current and dual time modes.

Sunny: bright sun with little to no cloud cover

Partially clouday: cloudy with sun, some chance for storms
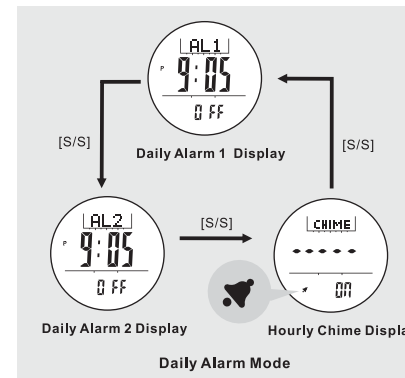
Overcast: cloudy with increased chance for storms

Rain or Snow: heavy clouds with high chance for storms

Note: The NOMAD G3-PRO predicts weather patterns based on changes in the barometric pressure for the next 12 to 24 hours. Greater accuracy is achieved when the user stays at the same altitude for at least 24 hours.

CAUTION: The NOMAD G3-PRO predicts changes in weather patterns to the best of its ability . It is not infallible, and is no substitute for good outdoors sense and awareness to your surrounds. STAY SAFE! If the weather looks like it is turning bad, it is time to take cover or head back; even if the instrument is predicting sunshine.

AL1 9:05 OFF

Daily Alarm 1 Display

[S/S]   [S/S]

AL2 9:05 OFF

Daily Alarm 2 Display   **Hourly Chime Display**

[S/S]

CHIME ON

Daily Alarm Mode

Daily Alarms and Hourly Chime

The NOMAD G3-PRO features two daily alarms that operate independently. Press the [S/S] button to switch between alarm 1, alarm 2 and the chime display per the adjacent diagram.
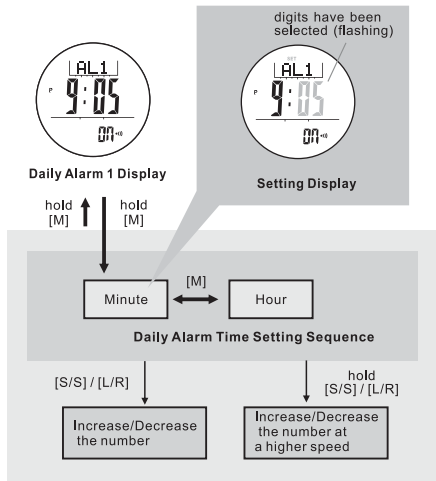
To turn the daily alarm on/off press teh [L/R] button when the alarm you want to adjust is displayed.

When either alarm is turn on, the ●))) indicator will show in the lower right of the screen. When ●))) indicator is present, the alarm will sound at the preset time every day. Press any button to stop the alarm.

To turn the hourly chime on/off, press the [L/R] button when on the chime display.

When the chime is on, the 🔔 icon will appear in the lower left part of the screen. When the indicator is present the instrument will chime once every hour on the hour.
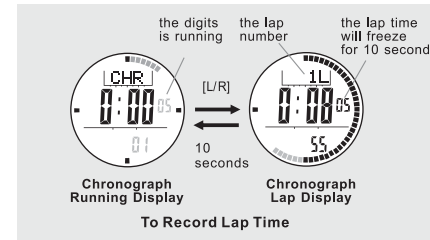
Daily Alarm 1 Display

digits have been selected (flashing)

Setting Display

hold [M]   hold [M]

Minute   [M]   Hour

Daily Alarm Time Setting Sequence

[S/S] / [L/R]   hold [S/S] / [L/R]

Increase/Decrease the number

Increase/Decrease the number at a higher speed

How to set the alarm(s)

- With alarm 1 displayed, press and hold the [M] button for about three seconds until the word 'set' is flashing in the top of the screen.

- In the setting mode, press the [M] button to change the selection between minute and hour. Note that PM times are indicated with a 'P' in the center right of the screen.

- When the digits are selected (flashing), press the [S/S] or [L/R] button to increase/decrease the number. Hold the button to change them at a faster pace.

- When the setting is complted, press and hold the [M] button to exit the setting mode.

the digits is running   the lap number   the lap time will freeze for 10 seconds

[L/R]

10 seconds

Chronograph Running Display   **Chronograph Lap Display**

To Record Lap Time

Total Time Display

[L/R]   1st lap memory   [L/R]
[S/S]   [S/S]

the next lap memories

[S/S]   [S/S]

the last lap memory
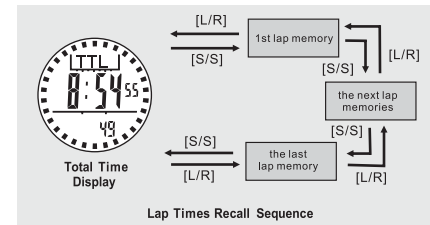[L/R]   [L/R]

Lap Times Recall Sequence

Recoding Lap Times

- The chronograph can measure elapsed time without stopping the counting lap time. It allows for recording up to 100 laps.

- When the chronograph is counting, press the [L/R] button to record a lap. This will not affect the overall timer.

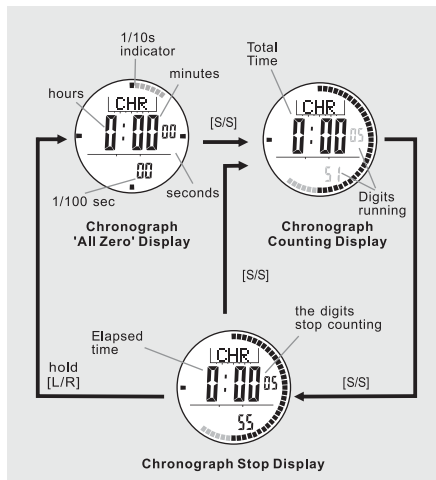- The lap number and the lap time will display for ten seconds, and then return to the counting diplay automatically.

- Repeat as above to record subsequent laps.

Recalling lap times

- In the chronograph display, press and hold the [M] button to view recorded lap times.

- When total time display appears, press the [S/S] or [L/R] button to check the next or previous lap time respectively.

- Hold down the [M] button to return to the chronograph.

- Reset and erase recorded lap times by holding the [L/R] button while the chronograph is stopped.
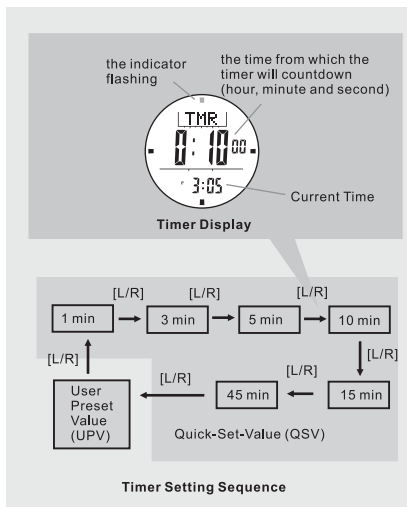
1/10s indicator

minutes

hours

Total Time

[S/S]

1/100 sec   seconds

Chronograph 'All Zero' Display

Digits running

Chronograph Counting Display

[S/S]

the digits stop counting

Elapsed time

hold [L/R]

[S/S]

Chronograph Stop Display

Chronograph Mode

- The NOMAD G3-PRO includes a function to measure elapsted time, accumulative elapsed time and individual lap times.

- The display shows 'all zeros' when teh chronograph is first selected or has been recently reset.

- Press the [S/S] button once to start the chronographer counting. Press the [S/S] button again to stop counting. Repeating these steps will give accumulated time.

- Reset the chronograph by holding the [L/R] button while the chronographer is in stop mode.
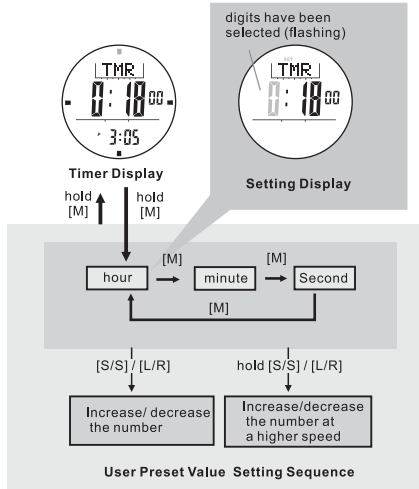
the indicator flashing   the time from which the timer will countdown (hour, minute and second)

Current Time

Timer Display

[L/R]   [L/R]   [L/R]

1 min → 3 min → 5 min → 10 min

[L/R]   [L/R]

User Preset Value (UPV) ← 45 min ← 15 min

[L/R]   [L/R]

Quick-Set-Value (QSV)

Timer Setting Sequence

Countdown Timer

- The NOMAD G3-PRO featues a countdown timer and six preset duration values. It also has a user defined duration value.

- For user ease, the insturment comes stock with quick set values that cannot be changed, at 1, 3, 5, 10, 15, and 45 minutes. Scroll between different quick set values using the [L/R] button when on the timer screen.

- There is also space for a user defined value that can be chosen by the user to best suit their use.

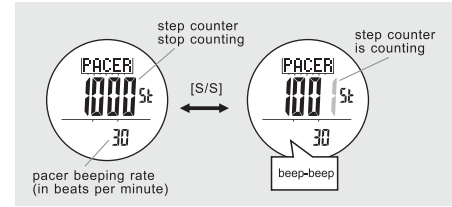- The adjacent chart show the sequence to navigate the timer mode. The [S/S] button will start/stop the timer.

Timer Display

Setting Display

digits have been selected (flashing)

hold [M]   hold [M]

[M] → [M]

hour → minute → Second

[M]

[S/S] / [L/R]   hold [S/S] / [L/R]

Increase/ decrease the number   Increase/decrease the number at a higher speed

User Preset Value Setting Sequence

How to set the user difined timer value

- With the timer mode displayed, enter the setting mode by holding the [M] button about three seconds until the word 'set' is flashing in the top of the screen.

- In the setting mode, press the [M] to cycle between hours minutes and seconds. When particular digits are selected (flashing), use the [S/S] and [L/R] buttons to increase/ decrease the unit value respectiveley. Hold donw the button to change at a faster pace.

- The user defined timer is limited to 99 hours, 59 minutes and 59 seconds. When complete, hold the [M] button to exit the setting mode.

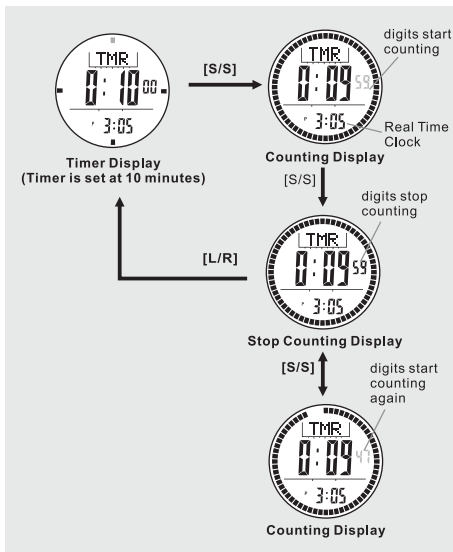- This value will be recalled until the user replaces it.

Timer Display (Timer is set at 10 minutes)

[S/S]

Counting Display

digits start counting

Real Time Clock

[S/S]

digits stop counting

[L/R]

Stop Counting Display

[S/S]

digits start counting again

Counting Display

Using the countdown timer

- When the timer is set, press the [S/S] button to start or to stop the timer. Whent he timer is stopped, press [L/R] to reset the timer.

- In the lat minute of a timed countdown, the instrument will chime every ten seconds, and every second durning the final five seconds.

- When the countdown reaches zero, the instrument will chime for 30 seconds, or until any button is pressed.

- The previous target time will be reloaded after the 30 second chime or when the [L/R] button is pressed.

- The adjacent chart shows the sequence for operating the countdown timer.

---

step counter stop counting

step counter is counting

[S/S]

pacer beeping rate (in beats per minute)

beep-beep

Pacer/cadance mode

- The pacer or cadence featues will generate a chime at user defined interval between 30 and 180 beats per minute (BPM) in increments of five.

- When the chiming rate is set, press the [S/S] button to begin the cadence chime. Subsequently, press the [S/S] button to stop the chime.

- Additionally, when the cadance feature is active, each chime will also be counted on the step counter. Press the [S/S] button to start/stop the step counter.

- The maximum step count is 99999, and can be reset to zero by holding the [L/R] button while the pacer is stopped.

- When the pacer has been running continuously for eight hours, it will stop automatically.
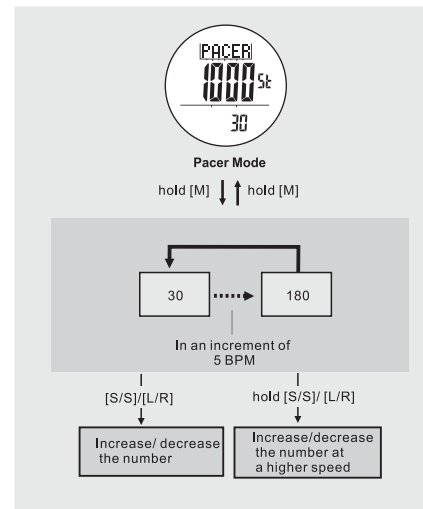

Pacer Mode

hold [M]   hold [M]

30 ⟶ 180

In an increment of 5 BPM

[S/S]/[L/R]   hold [S/S]/ [L/R]

Increase/ decrease the number   Increase/decrease the number at a higher speed

Setting the cadence pace (BPM)

- To enter the setting mode, press and hold the [M] button for about three seconds until the word 'set' appears in the top of the screen.

- The pacer rate at the lower center of the screen will flash, and the [S/S] button will increase the value, while the [L/R] button will decrease. Hold the button to change the value faster.

- When the setting is complete, press and hold the [M] button to exit the setting mode.
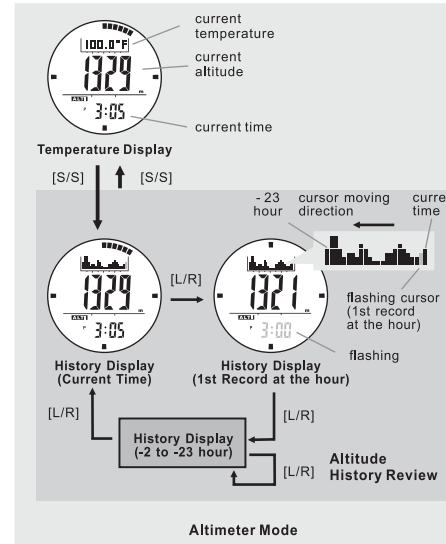
Pacer Mode

Chronograph Stops Counting Display

Chronograph Counting Display
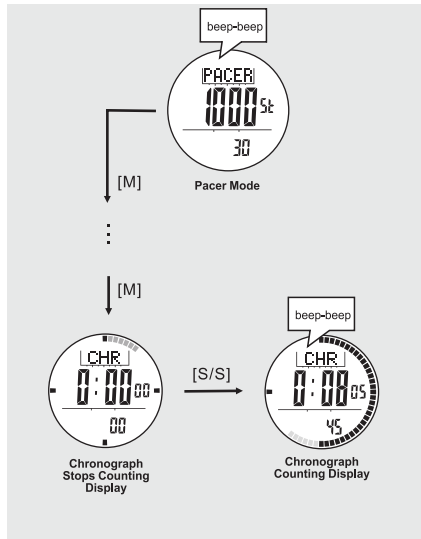
Using the pacer and chronograph together.

- While the pacer is on and the sound is chiming, press the [M] several times until the chronograph screen is shown.

- Press the [S/S] button to start the cadance and lap counting at the same time.

- While the chronograph is counting and the pacer is sounding, pressing the [S/S] button will stop or start both the cadance and chronograph functions.
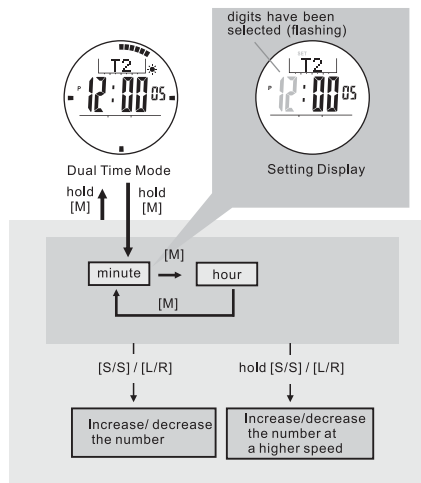
Dual Time Mode

Setting Display

minute → hour

Increase/ decrease the number

Increase/decrease the number at a higher speed

Setting the dual time

- The NOMAD G3-PRO inclues a function to show time adjusted for a different time zone. The secondary digit of the dual time mode synchronizes with the current time.

- To enter the setting mode, press and hold the [M] button for about three seconds until the word 'set' is flashing in the top of the screen.

- In the setting mode, press the [M] button to toggle between hours and minutes. When the digit is selected (flashing) press the [S/S] or [L/R] button to increase or decrease the unit value. Hold the button to change at a faster pace.

- When setting is complete, press and hold the [M] button to exit the setting mode.

current temperature
current altitude
current time

Temperature Display

- 23 hour   cursor moving direction   current time

flashing cursor (1st record at the hour)

flashing

History Display (Current Time)

History Display (1st Record at the hour)

History Display (-2 to -23 hour)

Altitude History Review

Altimeter Mode

Functional Display

- In the altimeter mode, the top functional display will show either the temperature or the altitude history graph. Press the [S/S] button to cycle between them.

- The history graph records altitude readings automatically every hour on the hour. This data is used to plot the history graph.

- To review data over the previous 23 hours, press the [L/R] button to move teh cursor to the left cyclically. The correspondingtime of recording will appear in the lower center portion of the screen according to the adjacent diagram.

- The temperature display show current temperature in degreecelsius or Fahrenheit. See the next section regarding the changeof units of measure.

- Please note that your body head willaffect the temperature reading, and the insturment shouldbe left away from heat sources for at least 10 minutes to achieve more accurate temperature readings.
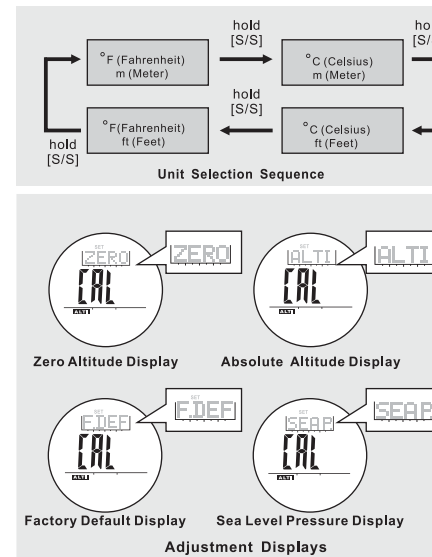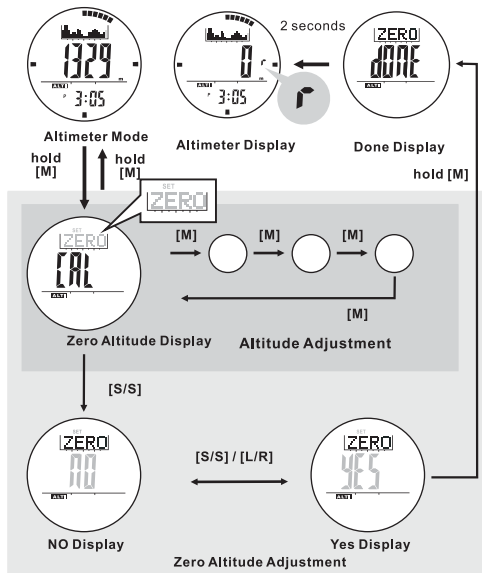
°F (Fahrenheit) m (Meter) → hold [S/S] → °C (Celsius) m (Meter)

°F(Fahrenheit) ft (Feet) ← hold [S/S] ← °C (Celsius) ft (Feet)

Unit Selection Sequence

Zero Altitude Display

Absolute Altitude Display

Factory Default Display

Sea Level Pressure Display

Adjustment Displays

Changing the unit of measure

- The NOMAD G3-PRO can display altitude in meters (m) or in feet (ft) and temperature in degrees Celsius or degrees Fahrenheit. To change between units of measure, press and hold the [S/S] key to cycle between units according to the adjacent diagram.

- There are four methods for adjusting altitude. They are calibrated independently so if one is selected after a previous setting, the earlier will be ignored. Specific functions for each are detailed in following sections.

- Zero Altitude: This method forces the reading to zero for relative altitude measurements. If teh altimeter is adjusted by zero, teh indicator 'r' will appear in the center right of the screen.

- Absolute Altitude: Set the altitdue to to a known value and it will be recalled for subsequent settings.

- Sea level pressure: Input a specific sea level pressure obtained from an offical site such as NOAA.

- Factory default: Restores to teh default settings with assumed sea level pressure at 1013.2 mb.

- **Note:** An automatic sea level comparis feature prevents fluctuation of altitude readings when the device remains at the same altitude.
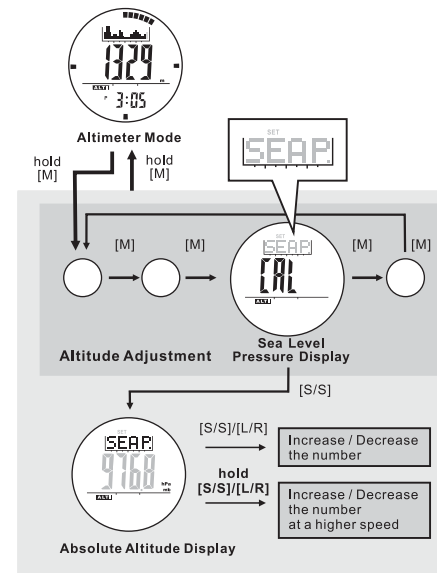
Altimeter Mode | Altimeter Display | Done Display | 2 seconds

hold [M] | hold [M] | hold [M]

SET ZERO

Zero Altitude Display | Altitude Adjustment

[M] → [M] → [M]

[M]

[S/S]

NO Display | Yes Display

[S/S] / [L/R]

Zero Altitude Adjustment

Measuring relative altitude

- The NOMAD G3-PRO can measure relative altitude, for example the ascending or descending altitude between start and finish of a hiking trail.

- From the altimeter screen, press and hold the [M] button until the word 'set' appears at the top fo the screen. Cycle through the four setting options by pressing [M] until 'ZERO' is shown at the top of the screen.

- Press the [S/S] button to toggle 'yes' (reset the altimeter to zero) or 'no' (abort the setting).

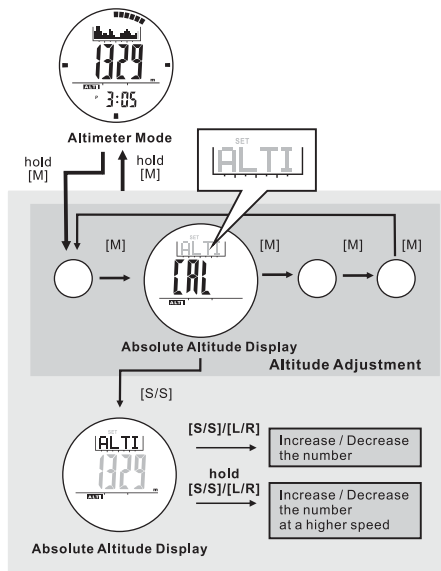- When setting is complete, press and hold the [M] button to exit the setting mode.

Altimeter Mode

hold [M] | hold [M]

SET SEA.P

[M] [M] → [M] [M]

Altitude Adjustment | Sea Level Pressure Display

[S/S]

SEA.P 9768 hPa

[S/S]/[L/R] → Increase / Decrease the number

hold [S/S]/[L/R] → Increase / Decrease the number at a higher speed

Absolute Altitude Display

Sea level pressure adjustment

- Altidue is calculated from the mean sea level, and air pressure changes contribute to out skewed seal level readings. To achieve greater accuracy, teh sea level pressure needs to be calibrated from time to time, and especially when the instrument has traveled great distances or on a pressurized aircraft.

- Sea level pressure adjustment requires a known relative seal level air pressure from weather services or NOAA

- From the altimeter screen, press and hold the [M] button to enter the setting mode. Then press the [M] button to cycle through the calibration options until 'SEA.P' appears at the top of the screen.

- Press [S/S] or [L/R] buttons to increase or decrease the absolute altitude. Hold down the button to change the value at a faster pace.

- When the adjusted air pressure matches your known relative sea level air pressure obtained from weather stations or NOAA, press and hold the [M] to exit the setting mode.
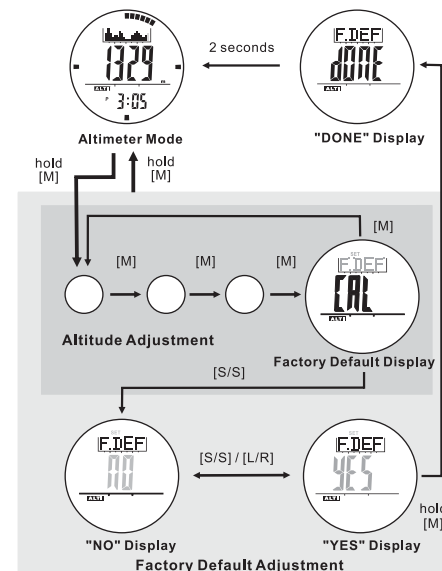
Altimeter Mode

hold [M] | hold [M]

SET ALTI

[M] → [M] [M] [M]

Absolute Altitude Display | Altitude Adjustment

[S/S]

ALTI 1329

[S/S]/[L/R] → Increase / Decrease the number

hold [S/S]/[L/R] → Increase / Decrease the number at a higher speed

Absolute Altitude Display

Absolute Altitude Adjstment

- Absolute altitdue is calculated from the air pressure, and changes in air pressure will affect teh altitude readings over time. To achieve greater accuracy, the NOMAD G3-PRO needs to be calibrated from time to time to compensate for changing atmospheric conditions.

- To adjust for absolute altitude, the NOMAD G3-PRO should be taken to a location where the altitude is known such as trail heads, precise landmarks on maps or from a reliable GPS locator.

- From the altimeter screen, press and hold the [M] button to enter the setting mode. Then press the [M] button to cycle through the calibration options until 'ALTI' appears at the top of the screen.

- Press [S/S] or [L/R] buttons to increase or decrease the absolute altitude. Hold down the button to change the value at a faster pace.

- When the adjusted number matches your known altitude, press and hold the [M] button to exit the setting mode.
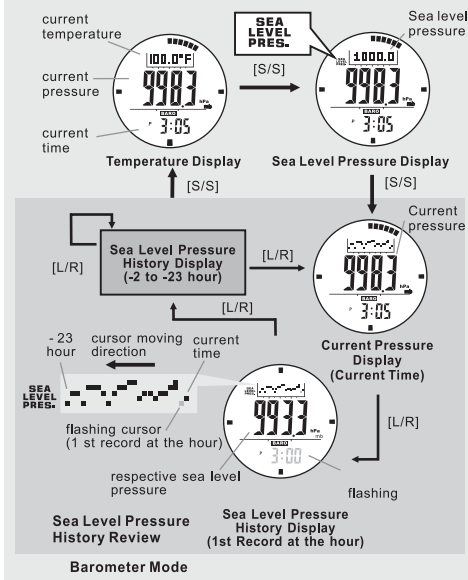
Altimeter Mode | 2 seconds | "DONE" Display

hold [M] | hold [M]

[M]

[M] [M] [M]

Altitude Adjustment | Factory Default Display

[S/S]

F.DEF NO | F.DEF YES

[S/S] / [L/R]

hold [M]

"NO" Display | "YES" Display

Factory Default Adjustment

Restoring altimeter to factory settings

- NOMAD G3-PRO can be restored to factory default settings where relative sea level air pressure is assumed based on averages. This feature is useful if you are experiencing highly inaccurate readings.

- From the altimeter screen, press and hold the [M] button until 'set' appears at the top fo the screen. Cycle through the four setting options by pressing [M] until 'F.DEF' is shown at the top of the screen.

- Press the [S/S] button to toggle 'yes' (reset the altimeter to factory default) or 'no' (abort the setting).

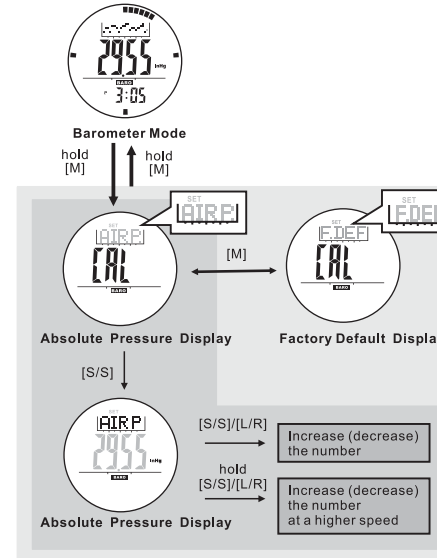- When the setting is complete, press and hold teh [M] button to exit the setting mode.

Temperature Display

Sea Level Pressure Display

Current Pressure Display (Current Time)

Sea Level Pressure History Display (1st Record at the hour)

Sea Level Pressure History Review

Sea Level Pressure History Display (-2 to -23 hour)

Barometer Mode

Function Display

- The barometer mode features three function displays: temperature, sea level pressure, and barometric pressure history graph. Press the [S/S] button to cycle between the three function displays.

- The temperature display can show readings in Celsius or Fahrenheit. Please note that your body head will be read by the on-board thermometer.

- The sea level pressure diplsys teh current sea level pressure according to the adjacent chart.

- The sea level pressure is recorded every hour on the hour and these data are used to plot the pressure history graph.

- To review previous records of barometric pressure over the past 23 hours, press the [L/R] button to move teh cursor to the left cyclically, and the corresponding pressure record will appear on the screen according the adjacent diagram.
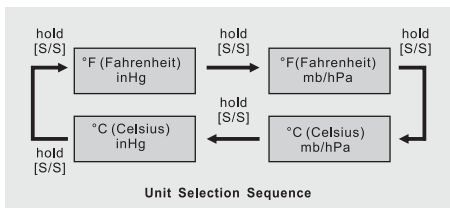
Unit Selection Sequence

Absolute Pressure Display   Factory Default Display

Adjustment Displays

Changing units of measure

- The barometer can display pressure readings in mb/hPa or inHg, and temperature readings in degrees Celsius or degrees Fahrenheit. To change betwen different units of measure, press and hold the [S/S] button following the adjacent diagram sequence.

- The NOMAD G3-PRO has been calibrated at the factory, and very little adjustment to the barometer is required. Over time, dramatic changes in the weather can result in skewed pressure readings. For that reason, there are two methods to calibrate or adjust the barometer mode.

- Absolute pressure: This method requires an known pressure reading from a trusted source like weather stations or NOAA.

- Factory default: This method returns the NOMAD G3-PRO to the original factory default settings you experienced when the unit first came out of the box.

- In-depth detail on each method follows in coming sections.

Barometer Mode

Absolute Pressure Display   Factory Default Display

Absolute Pressure Display

Increase (decrease) the number

Increase (decrease) the number at a higher speed

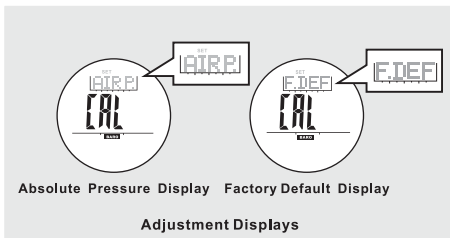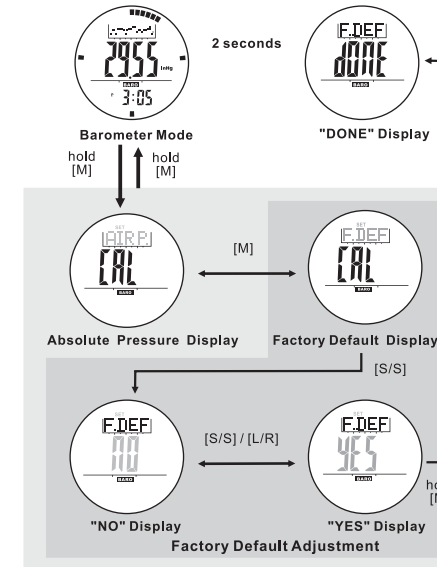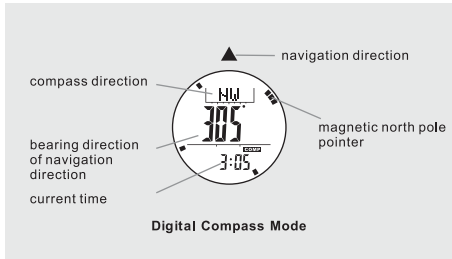**Absolute Pressure Adjustment**

- While the most accurate, this calibration method requires a known barometric pressure from a trusted source such as weather stations or NOAA. Incorrect pressure inputs can result in mistaken future readings.

- From the baromoeter screen, enter the setting mode by pressing and holding the [M] button until the word set appears in the top of the screen.

- Press [M] to cycle to where the screen shows 'AIR.P' at the top center.

- Press the [S/S] or [L/R] button to increase or decrease the pressure reading. Hold the button to change the value at a faster pace.

- When the reading matches the known barometric pressure value, press and hold the [M] button to exit the setting mode.

Barometer Mode

2 seconds

"DONE" Display

Absolute Pressure Display   Factory Default Display

"NO" Display   "YES" Display

Factory Default Adjustment

Restoring barometer to factory settings

- NOMAD G3-PRO can be restored to factory default settings where relative sea level air pressure is assumed based on averages. This feature is useful if you are experiencing highly inaccurate readings.

- From the barometer screen, press and hold the [M] button until the word 'set' appears at the top fo the screen. Toggle through the two setting options by pressing [M] until 'F.DEF' is shown at the top of the screen.

- Press the [S/S] button to toggle 'yes' (reset the altimeter to factory default) or 'no' (abort the setting).

- When the setting is complete, press and hold teh [M] button to exit the setting mode.

Digital Compass Mode

- navigation direction
- compass direction
- magnetic north pole pointer
- bearing direction of navigation direction
- current time

Compass precautions

- The compass feature of your NOMAD G3-PRO uese magnetic fields to seek and find North. Prolonged exposure to metals, electronics, or other magnets can degrade the abilty to accurately seek North.

- Like all magnetic compasses, the NOMAD G3-PRO seeks magnetic North rather than true North, and should be compensated as such. Please see subsequent sections on understanding declination.

- Compass calibration should be performed from time to time and especially when the compass has moved great distances or the battery has recently been replaced.
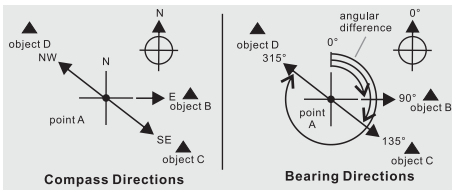

Normal Display **Idle Display**

Distortion display
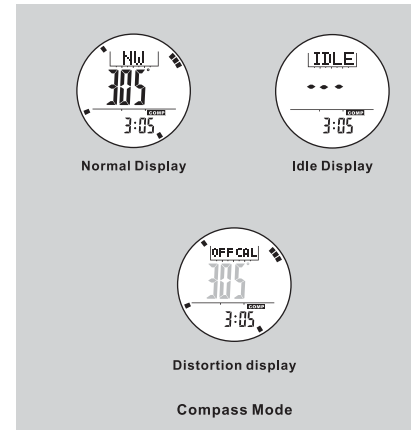
Compass Mode

Primary compass function

- In the compass mode, the top display shows direction in cardinal points. The middle, large row shows the the bearing direction in degrees.

- The base row shows the current time, and the pointer display around the edge of the compass indicates North.

- If no key is pressed for about 1 minute, the compass will enter IDLE mode automatically to preserve battery life. The word 'IDLE' will appear at the top of the screen. Reactivate the compass by simply pressing any key.

- Distortion can sometime occur when the compass detects magnetic interference from magnetic fields caused by metals, electronics or other magnets. The term 'OFF CAL' appears in the top of the screen.

- Please refer to the subsequent sections to restore the compass to normal operatioin.

12.1 Compass Mode - Compass Directions and Bearing Directions

Compass Directions   **Bearing Directions**

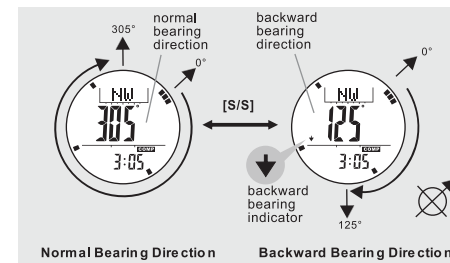| Marks	Compass Directions	Bearing Directions
N	North	349° - 11°
NNE	North Northeast	12°- 33°
NE	Northeast	34° - 56°
ENE	East Northeast	57° - 78°
E	East	79° - 101°
ESE	East Southeast	102° - 123°
SE	Southeast	124° - 146°
SSE	South Southeast	147° - 168°
S	South	169° - 191°
SSW	South Southwest	192° - 213°
SW	Southwest	214° - 236°
WSW	West Southwest	237°- 258°
W	West	259° - 281°
WNW	West Northwest	282° - 303°
NW	Northwest	304° - 326°
NNW	North Northwest	327° - 348°

Cardinal and bearing directions

- The direct line from a compass is often called a heading or bearing. The NOMAD G3-PRO displays in both cardinal directions and in compass bearing (on the 360 degree scale).

- Cardinal directions are shown on the adjacent table. For example, direction of point B from point A is due East (E) while point C, in relationi to point A, is South-east (SE).

- Bearing refers to the direction of an object as defined by the difference between North and the object (where North is 0. For example, the bearing from point A to point B is 90 degrees in the adjacent diagram.

12.3 Compass Mode - Backward Bearing Direction and Compass Lock

Normal Bearing Direction   **Backward Bearing Direction**

- 305°
- normal bearing direction
- backward bearing direction
- [S/S]
- backward bearing indicator
- 125°

Direction Unlocked   **Direction Locked**

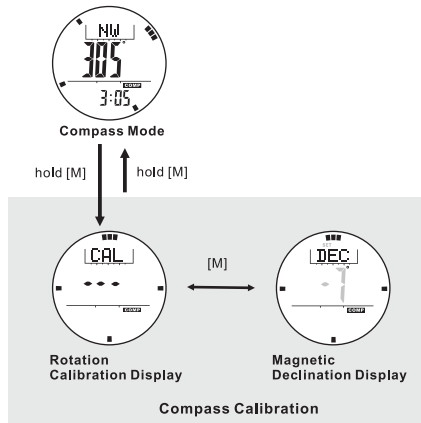- compass lock indicator
- [L/R]

Back bearing

- The NOMAD G3-PRO features a backwards bearing mode that allows users to more easily retrace their steps along a navigated route.

- The back bearing shows the reverse bearing of the forward (normal) bearing direction. The back bearing is indicated by " ↓ " symbol.

- Press the [S/S] key in the compass mode to toggle between forward and back bearing.

Compass Lock
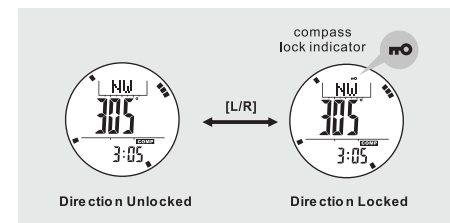
- The NOMAD G3-PRO includes a compass lock feature that locks in useful direction readings. In the compass mode press the [L/R] button to lock/unlock the compass.

- When in the locked mode, the "🔒" indicator appears at the top of the screen. In this mode, cardinal direction, bearing reading, and the magnetic North pointer are all locked.

- The locked mode will release when the compass enters the IDLE mode.

Compass Mode

hold [M]   hold [M]

CAL   [M]   **DEC**

Rotation Calibration Display   **Magnetic Declination Display**

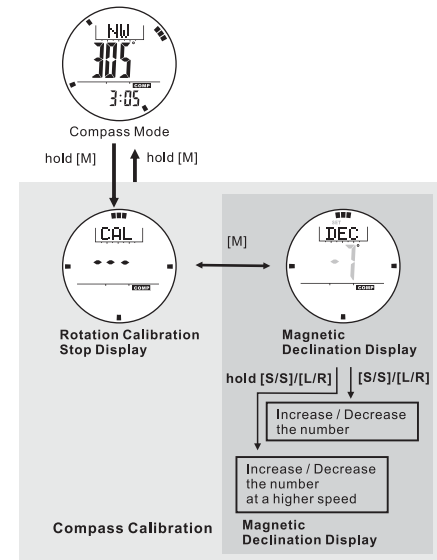**Compass Calibration**

Whern to calibrate the compass

• The NOMAD G3-PRO compass should be calibrated under any of the following conditions.
  1. When being used for the first time.
  2. When the battery has been replaced.
  3. If the 'OFF CAL' error appears on the screen.
  4. The compass is being used in a location far from where it was last calibrated.
  5. If the user detects inaccuracy as compared to an analog compass.

Calibrating the compass

• Innacurate headings may be recorded if the compass is not properly calibrated. Calibration requies a two step process. The rotation calibration allows the compass to properly detect magnetic North.

• The magnetic declination calibration allows users to compensate for differences in magnetic declination based upon their location on the globe.
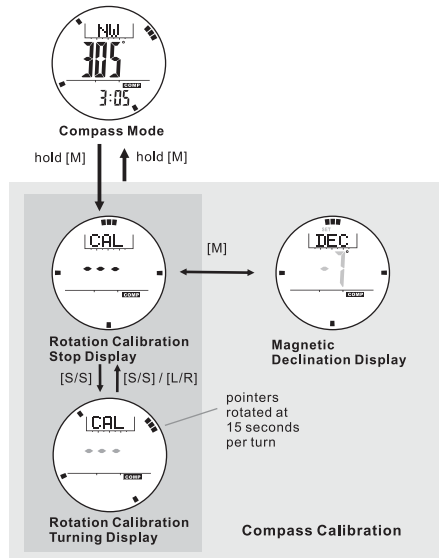
Compass Mode

hold [M]   hold [M]

CAL   [M]   **DEC**

Rotation Calibration Stop Display   **Magnetic Declination Display**

[S/S]   [S/S] / [L/R]

CAL

pointers rotated at 15 seconds per turn

Rotation Calibration Turning Display   **Compass Calibration**

Step 1, rotation calibration

• While on the compass mode, press and hold the [M] button to enter the calibration mode. Place the compass on a flat surface. For greater accuracy, calibration should occur away from magnetic interference such as metals, electronics or other metals. A wooden table outside is optimal.

• In the calibration mode, press the [S/S] key to begin the rotation calibration. The pointers will start to circle the outside of the screen.

• Slowly rotate the watch in a clockwise motion for two full revolutions. Each rotation should take about 20 - 30 seconds.

• After two full revolutions, press and hold the [M] button to exit the calibration mode, or a single click of the [M] button to enter the magnetic declination.

Compass Mode

hold [M]   hold [M]

CAL   [M]   **DEC**

Rotation Calibration Stop Display   **Magnetic Declination Display**

hold [S/S]/[L/R]   [S/S]/[L/R]

Increase / Decrease the number

Increase / Decrease the number at a higher speed

Compass Calibration   **Magnetic Declination Display**

Setting magnetic declination

• A compass seeks magnetic North. The difference between true and magnetic North is call magnetic declination, and it varies based upon your location on the globe. Setting your magnetic declination will compensate for this difference resulting in more accurate readings. You can obtain your specific magnetic declination by visiting *www.magnetic-declination.com*.

• To enter the magnetic declination adjustment, press the [M] button while in the rotation calibration mode. From there, press the [S/S] or [L/R] buttons to increase or decrease the declination value. Note that Easterly declinations are positive (+) while Westerly declinations are negative (-).

• For example, at Brunton HQ in Wyoming, we are 11 degrees East of true north (11E) so adjustments here are +11. Meanwhile, declination in NYC is 12 degrees West of true north (12W) so the adjustment there would be -12.
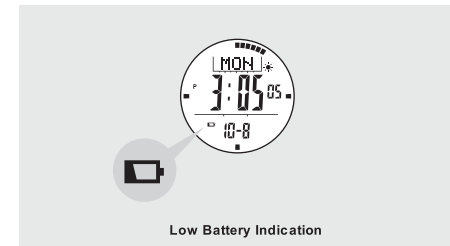
Low Battery Indication

Low battery indication

• When the battery of the NOMAD G3-PRO is below 10% the lower battery symbol will appear on the screen according to the adjacent diagram. When the battery has ended its usable life, it is recommended it be replaced to avoid shut down in the field.

• Frequent use of the back light will drain the battery faster. When the battery is low, use of the back light is not recommended.

• False low battery indications can sometime occur when the NOMAD G3-PRO is being used in very cold temperatures. The low battery indicator will go away when the unit is warmed.

• Replace the battery with common CR2032 coin style batteries. Open the battery door with a coin or large flat head screw driver.

Current Time Mode

Hold [L/R]
5 second

Any button

**Power Saving Mode
(LCD display turned off)**
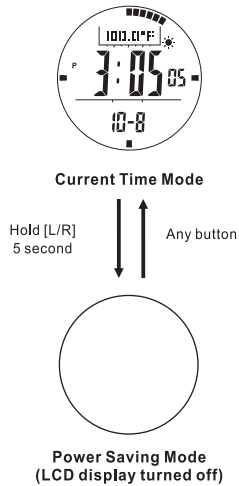
Power Save Mode

- The NOMAD G3-PRO featues a power save mode in order to preserve battery life. The power save mode disables the LCD screen to save energy.

- Functions of the insturment continue to work in the power save mode (i.e. the timekeeping function will operate normally in power save mode).

- From the current time screen, press and hold the [L/R] button for about six seconds to enter the power save mode. The LCD screen will turn off.

- Reactivate the NOMAD G3-PRO simply by pressing any key.

Altimeter Mode
Resolution
- 1m (1ft)

Measuring range
- -706m to 9164m (-2316ft to 30065ft)

Sampling Interval
- First 5 minutes: 1 second
- After 5 minutes: 1 minute

History Recall
Barometer Mode
Resolution
- 1 hPa/mbar (0.01 inHg)

Measuring Range
- 300 hPa/mbar to 1100 hPa/mbar (8.85 inHg to 32.48 inHg)

Sampling Interval
- First 5 minutes: 1 second
- After 5 minutes: 1 minute

History Recall
Thermometer
Resolution
- 0.1 °C (0.1°F)

Measuring range
- -10.0 °C to 60.0 °C (14.0 °F to 140.0 °F)

Compass Mode
Resolution
- 1° display (digital)
- 1 to 60 pointers (graphical)

Measuring range
- 0° to 359° (digital)
- 1 to 60 pointers (graphical)

Others
- Digital bearing reading Lock
- Digital backward bearing

Backlight
- Electro-Luminescent (EL) backlight

Battery
- Single 3V lithium battery (CR2032)

Current Time Mode
- Hour, minute, second, am, pm, month, date, and day of week/ sea level pressure history display/ altitude history/ temperature

Time System
- 12-hour or 24-hour format

Calendar System
- Auto-Calendar pre-programmed from the year 2004 to 2099

Weather Forecast
- 4 symbols to indicate the predicated weather

Daily Alarm Mode
- 2 daily alarms
- Hourly chime

Alarm Sound
- Sounds for 30 seconds at preset time of real time clock

Chronograph Mode
Resolution
- 1/100 second

Measuring Range
- 99 hours 59 minutes 59.99 seconds

Measuring Mode
- 100 laps memory
- Recall lap memory and total time

Timer Mode
Resolution
- 1 second resolution

Measuring range
- 99 hours 59 minutes 59 seconds

Operation Mode
- Countdown

Quick Set
- 6 quick preset Values (1, 3, 5, 10, 15 and 45 minutes)

Timer Sounds
- Sounds for 30 seconds when counting to zero

Pacer Mode
Measuring range
- 30 BPM to 180 BPM (an increment of 5)

Step counter
- Up to 99999 steps

Brunton has taken every effort to ensure years of trouble-free use and reliablity from your NOMAD G3-PRO. Brunton warrants this product to be free of defects in materials and workmanship for 12 months from original purchase. The warranty is void and a charge for repair will be assessed if this product has been damanged by negligence, accident, mishandling, if the product has not been operated according to standard procedures or if the product was altered or repaired by anyone other than Brunton. This product is not subject to guarantees from third parties. This warranty gives you specific legal rights which may vary by location. Brunton does not assume any responsibility for consequential damages occasioned by the use of this product.

Should your NOMAD G3-PRO prove defective, please contact Brunton and you will be provided with a Return Authorization (RA) number. Please be prepared to provide proof of purchase, the RA#, a short description of the problem, and the product itself. Brunton will repair or replace the product with an equivalent model per Brunton's discretion. Brunton recommends insuring the product in case of loss or damage in shipment.

Activate your warranty by visiting bruntongroup.com/register

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