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

- (E) TIME
- (F)
- CAL
- (B) ALT
- Bargraph
- (A) BARO
- TEMP
- (C) Temperature Trend
- DIR
- (D)
- Direction of the North
- (G) Weather Forecast
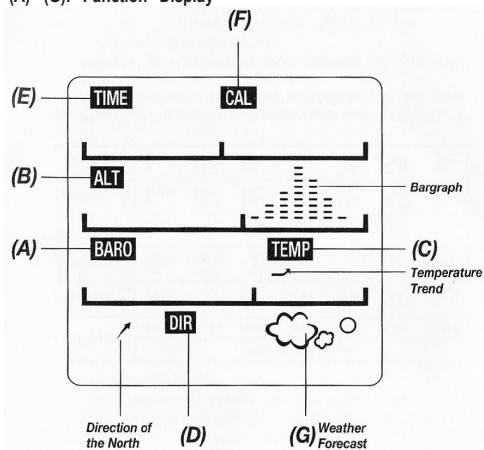
SPECIFICATION

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

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

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

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

OPERATION

1. Press "**ON/OFF**" button to switch on. In normal mode, display shows reading of:
   - i   pressure: in unit of mb (mbar) (or inHg).
   - ii   height: shows in unit of m (meter) (or ft).
   - iii   temperature: shows in unit of °C (or °F).
   - iv   direction: shows in whole circle bearing, e.g. 255° (or compass bearing e.g. S75°W (=255°).
   - v   time: shows and starts time at 12 hour format e.g. 12:00oo am (or 24 hour format).
   - vi   calendar: shows in d/m with day (or m/d).
   - vii   bar graph
   - viii   weather forecast: show in graphic icon

To operate under scope of above i to viii, press "**mode**" to switch as following:

   - i   "BARO", "ALT", "TEMP", "DIR", "TIME" and "CAL"
   - ii   "BARO", "ALT", "TEMP", "TIME" and "CAL"

2. Press and hold "on/off" for 3 seconds to switch off.

A. PRESSURE
To look for BARO information:

1. Press "mode" to pressure mode. **BARO** appears, Bar graph for pressure trend of previous 12 hours shows. Press "mode" again to exit and switch to "ALT" mode.

2. BARO mode includes following functions:
   - (a)   Real-time pressure reading in mb (hPa) or inHg.
   - (b)   Pressure trend reading (past 12 hours readings)

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

3. Air pressure unit switchable
   - i   Go to (2a)
   - ii   Press together "**set**" and "+" to switch between mb (hPa) and inHg.

4. Pressure Trend (past 12 hours reading)
   - i   Go to (2b). Display will show one pressure reading for previous past hour with "**- 1 hr**" next to reading.

   - ii   Press "+" or "-" to check record of reading in other hours within past 12 hours.

B. ALTITUDE

1. Press "mode" to altimeter mode. **ALT** appears, Bar graph for altimeter trend of previous 12 hours shows. Press "**mode**" again to exit and switch to "TEMP" mode.

2. ALT mode includes functions:
   - (a)   Real time altimeter reading in meters or feet
   - (b)   Max/min altimeter memory recalling
   - (c)   Altimeter Trend (past 12 hours reading)
   - (d)   High/low altimeter alarm
   - (e)   Current ascent/descent rate in ft/hr or m/hr
   - (f)   Ascent/descent differential altitude ▲, ▲H; ▼, ▲H
   - (g)   Accumulative ascent/descent altitude Σ+, ▲ or Σ+, ▼

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

3. Altitude unit switchable
   - i   Go to (2a).
   - ii   Press together "**set**" and "+" to switch between m or ft.

4. Setting a reference altitude

   Altimeter uses pressure sensor to detect current air pressure, which is then used to estimate current altitude. Unit is pre-programmed with preset values, which are used to convert air pressure reading to altitude values. If a reference altitude is used, unit will calculate relative altitude based on reference altitude (not preset value).

   After a reference altitude is set, unit adjusts air-pressure-to-altitude conversion calculation accordingly. Altitude measurements calculated is subjected to error caused by change in air pressure. Therefore, updating reference altitude whenever one is recommended.
   - i   Go to (2a)
   - ii   Press and hold "**set**", "**OFF**" displays, which representing reference altitude is not in use.
   - iii   Press "+" or "-" to turn on the reference altitude setting and "**On**" display.
   - iv   Press "**set**" to confirm, real time altitude flashing.
   - v   Press "+" once to increase one digit or press and hold "+" for acceleration of increments.
   - vi   Press " -" once to decrease one digit or press and hold "-" for acceleration of increments.
   - vii   Press "**set**" to confirm and real time altitude change to the preset reference altitude.
   - viii   If no reference altitude is set and turn off, the unit uses the preset value for altitude calculation.

5. Switch on/off altitude measurement

   User can switch off measurement of altitude.
   - i   Go to (2a), Press "**set**" and "-" to switch off measurement of altitude.

   - ii   Display reads "----" It stops measurement of altitude.

   - iii   When measurement is stopped, unit keeps updating altitude for every 15 minutes (same as pressure measurement).
   - iv   Press "**set**" and "-" together in (2a) to switch on measurement again. Display reads real time reading immediately and update every second immediately.
   - v   Should measurement is switched off, unit will still convert altitude by pressure value in every 15 minutes and bar graph will also be updated accordingly.
   - vi   Should measurement be switched off, other value in (2a) to (2g) will keep as last reading.

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

   - ii   Press "+" to show maximum altitude tested. "**MAX**" shows on display.
   - iii   To clear memory, in (6ii), press and hold "**set**" reading reset memory to 0 (a beep sound) and start to record maximum reading.
   - iv   Press "-" to show minimum altitude tested. "**MIN**" shows on display.
   - v   To clear memory, in (6iv), press and hold "**set**" reading reset memory to 0 (a beep sound) and start to record maximum reading.
   - vi   Press "+" and "-" together to (2c).

7. Altitude Trend (past 12 hours reading)
   - i   Go to (2c), Display will show one altimeter reading for previous past hour with "**- 1hr**" next to reading.

   - ii   Press "+" or "-" to check record of reading in other hours within past 12 hours.

8. High/low altimeter alarm
   - i   Go to (2d), display shows flashes "**AL**".

   - ii   Press and hold "+" to set and check high alarm, "**AL**" and, "**HI**" flashes. -700m or previous reading shows on display; or
   - iii   Press and hold "-" to set and check low alarm, "**AL**" and, "**LOW**" flashes. -700m or previous reading shows on display.
   - iv   To set alarm, Press "+" or "-" to set desired alarm setting. -700m-+ 9000m-+ -700m, each press 10th, continue press 100th.
   - v   Press and hold "**set**" to confirm and display returns to (2a) real time reading and shows "**HI**" or "**LOW**"
   - vi   When reading reaches alarm setting, alarm beep turns on for 15 times. "**HI**" or "**LOW**" flashing.
   - vii   Press any key to stop alarm and "**HI**" or "**LOW**" stops flashing; or it stops automatically after 15 times.
   - viii   To delete high alarm setting, press "**set**" and"+" in (2d) to delete high alarm set, "**HI**" disappear; or
   - (ix)   To delete low alarm setting, press "**set**" and "-" in (2d) to delete low alarm set, "**LOW**" disappear.

   - (x)   Press "+" and "-" to exit and switch to (2e).
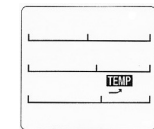
9. Current ascent/descent rate
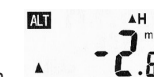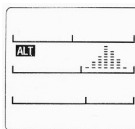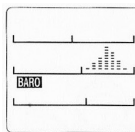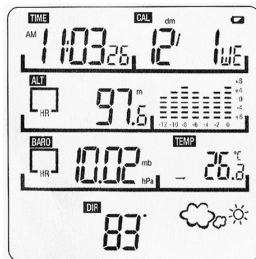   - i   Go to (2e), display shows current ascent rate. "▲" shows on display.
   - ii   Press "-" to show current descent rate. "▼" shows on display.

   - iii   Press "+" and "-" together to return to (2l).

10. Ascent/descent differential altitude
   - i   Go to (2l), display shows ascent differential altitude reading. "▲ H" and "▲" shows on display.
   - ii   Press "+" to show ascent differential altitude reading. "▲ H" and "▲" shows on display.
   - iii   To clear memory, in (10ii), press and hold "**set**", reading reset to 0 and start to record ascent differential altitude reading.
   - iv   Press "-" to show descent differential altitude reading. "▲ H" and "▼" shows on the display.
   - v   To clear memory, in (10iv), press and hold "**set**" the reading reset to 0 and start to record the descent differential altitude reading.

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

11. Accumulative ascent/descent altitude
   - i   Go to (2g), display shows the accumulative ascent altitude reading. "ε" and "▲" shows on display.
   - ii   Press "+" to show accumulative ascent altitude tested. "ε" and "▲" shows on display.
   - iii   To clear memory, in (11ii), press and hold "**set**" reading reset to O and start to record accumulative ascent altitude tested.
   - iv   Press "-" to show accumulative descent altitude tested. "ε" and "▲" shows on display.
   - v   To Clear memory, in (11iv), press and hold "**set**" reading reset to O and start to record maximum reading.

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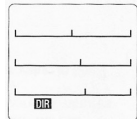
C. TEMPERATURE

To look for TEMP information:

1. Press "**mode**" to **TEMP** mode.
   TEMP appears. Press "**mode**" again to exit and switch to "**DIR**" (or "**TIME**") mode.
2. TEMP mode includes following functions:
   (a) Real-time temperature reading; and
   (b) Temperature trend; An arrow shows on display representing the temperature is:
   i rising; or
   ii steady; or
   iii down going
3. °C/°F switchable
   i Go to (2a)
   ii Press together "**set**" and "**+**" to switch between °C and °F.
4. Temperature max/min memory recalling
   i Go to (2a)
   ii Press "**+**" to show maximum temperature tested. "MAX" shows on display.
   iii Press "**-**" to show minimum temperature tested. "MIN" shows on display.

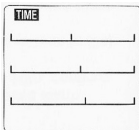## D. DIRECTION

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 unit is in compass mode, it starts to measure and update direction every second for 1 minute.
   ii Afterward the display read "---".
   iii In compass mode, press "**set**" to reactivate unit to measure and update the direction every second for 1 minute; or
   iv Press "**mode**" to exit and re-enter to DIR mode again.

E. TIME

To look for TIME information:

1. Press "**mode**" to **TIME** mode
   TIME shows on the display. Press "**mode**" again to exit and switch to "**CAL**" mode.
2. TIME mode includes following function:
   (a) Real time clock
   (b) Alarm time setting (🔔 shows on the display)
   (c) Timer (count up and count down); ⧗ shows on the display

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

3. 12/24 switchable
   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 digits. 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. Minute digits flash.
   iii Press "**+**" or "**-**" to set minute digits. Press and hold "**set**" to confirm .
   iv When time is reached, 🔔 flashes and beeping sound of alarm will last for 1 minute. Press any key to stop the alarm.
   v To get into the alarm with snooze mode, press "set " again, both 🔔 & Z^z flashes.
   vi When time is reached, 🔔 flashed and stop it by pressing any key. While Z^z starts flashing. Snooze will sound for every 5 minutes and repeat for 5 times.
   vii Press "**set**" to cancel both function mode 🔔 & Z^z .
   viii Press "**+**" and "**-**" to return to the real time mode.
6. Timer Set (23:5959) Go to (2c), ⧗ flashes. Time digits "**0:00oo**" show on the display.
7. Count up
   i Press "**mode**" to start count up .
   ii Press "**mode**" to pause/stop and re-start.
   iii Press together "**+**" and "**-**" to go to other time mode during counting while ⧗ flashes during counting.
8. Countdown
   i Press and hold "set". Hour digits flash. Press "**+**" or "**-**" to set hour digit. Press "**set**" to confirm.
   ii Minute digits flash. Press "**+**" or "**-**" to set minute. Press "**set**" to confirm.
   iii Second digits flash. Press "**+**" or "**-**" to set second. Press "**set**" to confirm.
   iv When setting is confirmed, all digits stop flashing and all are set well.
   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 ⧗ flashes during count down.
   viii When time is reached, it sounds for 1 minute and digit remain "**0:00oo**". Or press any key to stop beeping when time is reached.
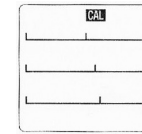   ix Press "**mode**", last setting will display. Simply press "**mode**" again to start count down again.

9. Timer clear
   i. In timer ⧗ mode, press "**mode**" to pause counting. Then press "**set**" to clear. Timer digits return to "**0:00oo**"

F CALENDAR

To look for CALENDAR information:

1. Press "**mode**" to **CAL** mode.
   CAL will appear.
2. CAL mode includes:
   (a) date and month showing (dim or mid) 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".
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
   iii Press "**+**" or "**-**" to select the language. Display show as following:
   "E" → "D" → "F" → "I" → "S" → "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						
	Mon	Tues	Wed	Thur	Fri	Sat	Sun
English E	Mo	Tu	WE	TH	Fr	SA	Su
German J	Mo	Ji	Mi	Jo	Fr	SA	So
French F	Lu	MA	ME	JE	VE	SA	Ji
Italian I	Lu	MA	ME	Gi	VE	SA	Jo
Spanish S	Lu	MA	Mi	Ju	Vi	SA	Jo

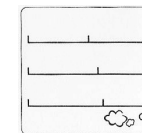   iv Press "**set**" to confirm and month digits flash first. Press "**+**" or "**-**" to set month. Press "**set**" to confirm. Then date digits flash.
   v Press "**+**" or "**-**" to set date . Press and hold "**set**" to confirm and go back to real time mode.
   vi Go to (2b). "yr" shows and 4 places 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.

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 ☀
ii partly cloudy ☁ ☀
iii cloudy ☁
iv rainy 🌧
v thunder storm ⛈
vi moon and star ★

TRACEABLE® HAND HELD DIGITAL BAROMETER INSTRUCTIONS

BACKLIGHT
i Press "**B/L**" to turn on the back light.
ii Press again to switch off. Or it will turn off automatically after 10 seconds.

BATTERY REPLACEMENT
Turn unit over. Use a coin or similar opener to open cover. Insert a new batteries (2 x 3 volts "CR2032" size or equivalent) as the direction indicated. Close the cover.

WARRANTY, SERVICE, OR RECALIBRATION
For warranty, service, or recalibration, contact:

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Traceable® Products is ISO 9001:2018 Quality-Certified by DNV and ISO/IEC 17025:2017 accredited as a Calibration Laboratory by A2LA.

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