



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO PRO TREK PRG-80T MODULE 2894. You'll find the answers to all your questions on the CASIO PRO TREK PRG-80T MODULE 2894 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CASIO PRO TREK PRG-80T MODULE 2894
User guide CASIO PRO TREK PRG-80T MODULE 2894
Operating instructions CASIO PRO TREK PRG-80T MODULE 2894
Instructions for use CASIO PRO TREK PRG-80T MODULE 2894
Instruction manual CASIO PRO TREK PRG-80T MODULE 2894

MOD2894

Operation Guide 2894

CASIO

Getting Acquainted

Congratulations upon your selection of this CASIO watch. To get the most out of your purchase, be sure to read this manual carefully and keep it on hand for later reference when necessary.

Applications

The basic features of this watch measure direction, barometric pressure, temperature and altitude. Measured values are shown on the display. Built-in features include the watch's world clock, memory, recording, or when engaging in other such outdoor activities.

Keep the watch exposed to bright light

The display generated by the solar cell of the watch is powered by a built-in battery. Leaving or covering the watch in the dark for an extended period causes the battery to run down. Make sure the watch is exposed to light as much as possible.

- When you are not wearing the watch on your wrist, position the watch so that it is exposed to a source of bright light.
- You should try to keep the watch outside of your sleeve as much as possible. Even if the face of the watch is only partially blocked from light, charging will be reduced significantly.

The watch continues to operate, even when it is not exposed to light. Leaving the watch in the dark can cause the battery to run down, which will cause some watch functions to be disabled. If the battery goes dead, you will have to re-configure watch settings after recharging. To assure normal watch operation, be sure to keep it exposed to light as much as possible.

Battery charges in the light

View with compass light (display on) (display off)

Battery discharge in the dark

View with compass light (display on) (display off)

The actual level at which some functions are disabled depends on the watch model.

General Guide

- The illustration below shows which buttons you need to press to navigate between modes.
- In any mode, press (1) to illuminate the display.

Timekeeping

Use the Timekeeping Mode to set and view the current time and date.

- In the Timekeeping Mode, press (2) to toggle between the month-day and the day-of-the-week at the top of the display.

Read This Before You Set the Time and Date

This watch is preset with a number of city codes, each of which represents the time zone where that city is located. When setting the time, it is important that you select the correct city code for your Home City, the city where you normally use the watch. If your location is not included in the preset city codes, set the present city code that is in the same time zone as your location.

Other features:

- Frequent display illumination can run down the battery quickly and require charging. The following guidelines give an idea of the charging time required to recover from a single illumination operation:
 - Approximately 5 minutes exposure to bright sunlight coming in through a window.
 - Approximately 50 minutes exposure to indoor fluorescent lighting.
- Do not read "Power Supply" for important information you need to know when exposing the watch to bright light.

If the display of the watch is blank

If the display of the watch is blank, it means that the watch's Power Saving function has turned off the display to conserve power.

- See "Power Saving" for more information.

Warning:

- The measurement functions built into this watch are not intended for taking measurements of or making professional or industrial precision measurements only.
- When engaging in mountain climbing or other activities in which falling, you may not create a dangerous or life-threatening situation, always be sure to use an accident-computer or other similar equipment.
- CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims for third parties that may arise through the use of this watch.

About This Manual

- Button operations are indicated using the button shown in the illustration.
- Each illustration of this manual provides you with the information you need to perform operations in each mode. Further detailed technical information can be found in the "Reference" section.

Navigation Diagram:

From (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

Timekeeping Modes:

World Time Mode, Date Recall Mode, Stopwatch Mode, Countdown, Alarm Mode, Sleep Mode, Step Counter Mode, Temperature Mode, Barometric Pressure Mode, Altitude Mode, Compass Mode, Bright Light Mode, Power Saving Mode, Memory Mode, Recording Mode, World Clock Mode, Memory Mode, Recording Mode, World Clock Mode.

Sensor Modes:

Digital Compass Mode, Thermometer Mode, Barometer Mode, Altitude Mode.

To set the time and date:

- In the Timekeeping Mode, hold down (2) until the city code starts to flash, which indicates the setting screen.
- Use (2) and (3) to select the city code you want.
- Make sure you select your Home City code before changing any other setting.
- For full information on city codes, see the "City Code Table".



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

· The ACT indicator flashes on the display while a measurement is in progress. Note · Note that taking a measurement while the watch is not horizontal (in relation to the horizon) can result in large measurement error. · The margin of error for the angle value is ± 11 degrees.

If the indicated direction is northwest (NW) and 315 degrees, for example, the actual direction can be anywhere from 304 to 326 degrees. · Any ongoing direction measurement operation is temporarily paused while the watch is performing an alert operation (daily alarm, Hourly Time Signal, countdown timer alarm) or while illumination is turned on (by pressing L). The measurement operation resumes for its remaining duration after the operation that caused it to pause is finished. · The following table shows the meanings of each of the direction abbreviations that appear on the display. Direction Meaning N E S W North East South West Direction NNE ESE SSW WNW Meaning Direction Meaning Direction Meaning NorthEastNE Northeast ENE northeast northeast EastSouthSSE SE Southeast southeast southeast SouthWestSW Southwest WSW southwest southwest WestNorthNW Northwest NNW northwest northwest Note · See "Daylight Saving Time (DST)" for details about the DST setting. · You also need to enter the Timekeeping Mode in order to configure the following settings. Display illumination duration ("To specify the illumination duration") Power saving on/off ("To turn Power Saving on and off") Temperature, barometric pressure, and altitude units ("To select the temperature, barometric pressure, and altitude units") · The year can be set in the range of 2000 to 2099. The day of the week is calculated automatically in accordance with the date you set. Daylight Saving Time (DST) Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.

To toggle the Timekeeping Mode digital time between DST and Standard Time 1. In the Timekeeping Mode, hold down E until the city code starts to flash, which indicates the setting screen. 2. Press D once and the DST setting screen appears. 3. Press C to toggle between Daylight Saving Time (ON displayed) and Standard Time (OFF displayed). 4. Press E to exit the setting screen. · The DST indicator appears on the display to indicate that Daylight Saving Time is turned on. lllll l lllll llll · See "Digital Compass Precautions" for other important information about taking direction readings.

Barometer/Thermometer This watch uses a pressure sensor to measure air pressure (barometric pressure) and a temperature sensor to measure temperature. · You can calibrate the temperature sensor and the pressure sensor if you suspect that readings are incorrect. Digital Compass A built-in bearing sensor detects magnetic north and indicates one of 16 directions on the display. Direction readings are performed in the Digital Compass Mode. · You can calibrate the bearing sensor if you suspect the direction reading is incorrect.

To take barometric pressure and temperature readings Pressing B in the Timekeeping or in any of other Barometric Barometric pressure graph sensor modes enters the Barometer/pressure Thermometer Mode and automatically starts barometric pressure and temperature measurements. · It can take up to four or five seconds for the barometric pressure reading to appear after you enter the Barometer/Thermometer Mode. · Barometric pressure is displayed in units of Pressure 1hPa (or 0.05 inHg). differential Temperature pointer · The displayed barometric pressure value changes to xxx hPa (or inHg) if a measured barometric pressure falls outside the range of 260 hPa to 1100 hPa (7.

65 inHg to 32.45 inHg). The barometric pressure value will reappear as soon as the measured barometric pressure is within the allowable range. · Temperature is displayed in units of 0.1°C (or 0.2°F). · The displayed temperature value changes to xxx °C (or °F) if a measured temperature falls outside the range of 10.0°C to 60.0°C (14.0°F to 140.

0°F). The temperature value will reappear as soon as the measured temperature is within the allowable range. To enter and exit the Digital Compass Mode 12 o'clock position ll ll ll ll l. While in the Timekeeping or in any of the other sensor modes, press A to enter the Digital Compass Mode. · At this time, the watch will start a Digital Compass operation. After about two seconds, letters appear on the display to indicate the direction that the 12 o'clock position of the watch is pointing. Timekeeping Mode time · The direction reading on the display is updated each second for up to 20 seconds, after which measurement stops automatically. · The ACT indicator flashes on the display while a measurement is in progress. 2. Press D to return to the Timen.

· Do not rely upon this watch for altitude measurements or perform button operations while sky diving, hang gliding, or paragliding, while riding a gyrocopter, glider, or any other aircraft, or while engaging in any other activity where there is the chance of sudden altitude changes. · Do not use this watch for measuring altitude in applications that demand professional or industrial level precision. · Remember that the air inside of a commercial aircraft is pressurized. Because of this, the readings produced by this watch will not match the altitude readings announced or indicated the flight crew. Barometric Pressure Differential Pointer This pointer indicates the relative difference between the most recent barometric pressure reading indicated on the barometric pressure graph, and the current barometric pressure value displayed in the Barometer/ Thermometer Mode · Pressure differential is indicated in the range of ± 15 hPa, in 1-hPa units.

· The barometric pressure differential pointer is not displayed when the displayed current barometric value is outside of the allowable measurement range (260 to 1,100 hPa). · Barometric pressure is calculated and displayed using hPa as the standard. The barometric pressure differential can also be read in inHg units as shown in the illustration. Current pressure greater than most recent measured pressure How the Altimeter Measures Altitude The altimeter can measure altitude based on its own preset values, or a reference altitude specified by you. When you measure altitude based on preset values Data produced by the watch's barometric pressure sensor is converted to approximate altitude based on ISA (International Standard Atmosphere) conversion values stored in watch memory.

When you measure altitude using a reference altitude specified by you After you specify a reference altitude, the watch uses that value to convert the current measured barometric pressure value to altitude.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

To determine the height of a tall building, for example, specify zero for the reference altitude value while you are on the ground floor. Then when you go to a higher floor, the altitude displayed by the watch will indicate the height from the ground floor. Note that you may not be able to get a good reading if the building is pressurized or air-conditioned. When mountain climbing, you can set the B reference value in accordance with a marker along the way or altitude information from a A map. After that, the altitude readings 400 produced by the watch will be more accurate than they would without a reference altitude. inHg values Barometric pressure differential pointer hPa values Points to 9 o'clock for differentials outside the range of ± 15 hPa/ ± 0.44 inHg. Pressure differential examples in the illustration are indicated in 10 hPa/0.3 inHg steps.

Current pressure less than most recent measured pressure Displaying Your Current Altitude You can use the procedure described in this section to display your current altitude. If you leave the watch in the Altimeter Mode, it will regularly update the displayed altitude value, and indicate reading-to-reading changes in the altitude graph at the top of the display. Important! The procedure in this section simply displays values indicating your current altitude, without storing them in watch memory. For information about recording altitude readings in watch memory, see "Saving Altitude Data". To turn display of the barometric pressure differential pointer on and off 1. In the Barometer/Thermometer Mode, hold down E until SET appears in the upper display area. 2. Release E, and wait for four or five more seconds until either OFF or the current reference temperature value (if set) start to flash. This is the setting screen.

3.

Press D twice to display the pointer on/off setting screen. III III III III III III 3 Operation Guide 2894 To display your current altitude Current altitude Altitude graph III III III III III III Altitude differential pointer Timekeeping Mode time 1. Press C in the Timekeeping Mode or in any of the other sensor modes to enter the Altimeter Mode. The watch will automatically start altitude measurement, and display the result. It can take up to four or five seconds for the altitude reading to appear after you enter the Altimeter Mode.

2. Leave the watch in the Altimeter Mode if you want the displayed altitude value and the altitude graph contents to be updated at regular intervals. During the first three minutes after entering the Altimeter Mode, the ACT indicator will flash on the display as measurements are taken every five seconds. After that, the ACT indicator will disappear and measurements will be taken every two minutes. The maximum total ascent and total descent value is 99,995 m (or 99,980 ft).

Each value reverts to zero after the maximum is reached. How current session record data is updated Note The following operation is performed simultaneously with the operation described under "How periodic records are created and saved". 1. When you hold down C to start a save session, the watch clears any data that is already stored in the current session record. 2. The watch measures altitude and calculates data every five seconds for the first three minutes, and updates current record data accordingly. 3. After three minutes, the watch measures and calculates data every two minutes, and updates current record data accordingly. If you want to restart the altitude measurement operation at any point, press C. 3.

To stop the altitude measurement operation, press D to exit the Altimeter Mode. Notes Normally, displayed altitude values are based on the watch's preset conversion values. You can also specify a reference altitude, if you want. See "Specifying a Reference Altitude". Altitude is displayed in units of 5 meters (20 feet). The measurement range for altitude is 700 to 10,000 meters (2,300 to 32,800 feet). The measured altitude may be a negative value in cases where there is a reference altitude value set or because of certain atmospheric conditions. The displayed altitude value changes to xxxxx meters (or feet) if a measured altitude falls outside the measurement range. The altitude value will be displayed again as soon as the measured altitude is within the allowable range. You can change the measurement unit for displayed altitude values to either meters (m) or feet (ft).

See "To select the temperature, barometric pressure, and altitude Units". Saving Altitude Data The save altitude data operation described in this section creates records of altitude measurement data in watch memory. When you start a save session, measurement continues to be performed (indicated by the REC indicator flashing on the display) even if you change to another mode. II Types of Altitude Data Records A save session stores three types of altitude records in memory: periodic records (up to 40), a current session record, and a historical record. Periodic Records A save session creates up to 40 altitude records at fixed intervals and stores them in memory.

You can use the Data Recall Mode to view these records. How periodic records are created and saved Note The following operation is performed simultaneously with the operation described under "How current session record data is updated". 1. When you hold down C to start a save session, the watch creates Periodic Record 1, which contains the current date (month and day), time, and altitude. Starting a new save session clears any periodic records currently in memory and starts a new set of periodic records.

2. Next, the watch takes readings for Periodic Record 2 up to Periodic Record 40 at minute 00, 15, 30, and 45 of each hour. 3. Altitude measurement and periodic record storage stops automatically after Periodic Record 40 is stored. You can also stop the save session manually by holding down C again.

This will create the next sequential periodic record, which contains the current date (month and day), time, and altitude. Altitude Timekeeping Mode time L 3. The save session will continue until Periodic Record 40 is stored, or until you hold down C for about one second until REC disappears from the screen.

You can recall saved records using the Data Recall Mode. Other Altimeter Mode Features This section explains other features and settings that are available in the Altimeter Mode.

Note that all of the information in this section applies to all types of Altimeter Mode measurements, unless specifically indicated otherwise. Current Session Record The Current Session Record contains the data described below.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

The contents of this record are updated at regular intervals while a save session is in progress. Data High Altitude Low Altitude Total Ascent Total Descent Description Highest altitude reached during the current session. Lowest altitude reached during the current session. Total cumulative ascent during the current session. Total cumulative descent during the current session. Specifying a Reference Altitude After you specify a reference altitude, the watch adjusts its air-pressure-to-altitude conversion calculation accordingly. The altitude measurements produced by this watch are subject to error caused by changes in air pressure. Because of this, we recommend that you update the reference altitude whenever one is available during your climb. Relative Altitude Relative change in altitude during the current session. Change History Historical Record The Historical Record keeps track of high altitude, low altitude, total ascent, and total descent values across multiple save sessions. The contents of this record are updated at the end of each session. Data High Altitude Low Altitude Total Ascent Total Descent Description Highest altitude reached during all of the sessions. Lowest altitude reached during all of the sessions.

Total cumulative ascent during all of the sessions. Total cumulative descent during all of the sessions. Note that the historical record does not keep track of relative altitude change. See "Clearing the Historical Record" for information about clearing the historical record, which restarts all data values from zero. How the historical record is updated The watch performs the following operations when a save session is stopped (after periodic records 40 records are stored or when you hold down C).

Data High Altitude Low Altitude Total Ascent Total Descent Update Operation The historical record value is compared with the current session value, and the greater of the two is recorded in the historical record. The historical record value is compared with the current session value, and the lesser of the two is recorded in the historical record. The current session value is added to the historical record value. To start a new save session 1. Press C to enter the Altimeter Mode. 2. Hold down C for about one second until REC flashes on the display, which indicates that a new session is in progress. During a save session, you can press E to toggle between the current altitude screen and the relative altitude change screen. Relative Altitude Change Screen Current Altitude Screen Press E. Session relative altitude change Relative altitude indicator L 4 Operation Guide 2894 To set a reference altitude 1.

In the Altimeter Mode, hold down E until SET appears in the upper display area. 2. Release E, and wait for four or five more seconds until either OFF or the current reference altitude value (if set) start to flash. This is the setting screen. 3. Press C (+) or A () to change the current reference altitude value by 5 meters (or 20 feet). You can set the reference altitude within the range of 10,000 to 10,000 meters (32,800 to 32,800 feet). To set the altitude alarm 1. In the Altimeter Mode, hold down E until SET appears in the upper display area. 2.

Release E, and wait for four or five more seconds until either OFF or the current reference altitude value (if set) start to flash. This is the setting screen. 3. Press D once to display the altitude alarm setting. 4.

Press C (+) or A () to change the current altitude alarm value by 5 meters (or 20 feet). You can set the altitude alarm value within the range of 10,000 to 10,000 meters (32,800 to 32,800 feet). Pressing A and C at the same time resets the altitude alarm value to 0. 5. Press E to exit the setting screen.

1. In the Altimeter Mode, hold down E until SET appears in the upper display area. 2. Release E, and wait for four or five more seconds until either OFF or the current reference altitude value (if set) start to flash. This is the setting screen. 3. Press D once to display the altitude alarm setting. 4. Press B to toggle the altitude alarm on (ON) and off (OFF). 5.

Press E to exit the setting screen. An altitude alarm on indicator appears on the Altimeter Mode's Altitude Screen while the altitude alarm is turned on. This indicator does not appear on any other screen or in any other mode. Altitude alarm value Pressing A and C at the same time returns to OFF (no reference altitude), so the watch performs air pressure to altitude conversions based on preset data only. 4. Press E to exit the setting screen. Altitude graph The altitude graph shows Altimeter Mode measurement results. The vertical axis of the graph represents altitude, and each dot stands for 10 meters (40 feet). To turn the altitude alarm on and off Altitude alarm on indicator Time Altitude Current On/Off status Altitude Differential Pointer While a measurement operation is being performed in the Altimeter Mode, the altitude differential pointer indicates the difference between the current altitude and the last measured altitude. Current altitude greater than most recent measured altitude Altitude Data Recall Use the Data Recall Mode to view altitude periodic records currently in memory, as well as the current session record and the altitude historical record.

Altitude data records are created and stored in the Altimeter Mode. Foot values Meter values Altitude differential pointer Data Screens The following explains the contents of each of the screens that appear in the Data Recall Mode. Note While the periodic record, high altitude, or low altitude screen is displayed, the bottom part of the display alternates between the measurement date (month and day) and measurement time at 1-second intervals. Periodic record indicator Altitude Alternates at 1-second intervals. Points to 9 o'clock for differentials outside the range of ± 15 meters/49 feet.

Altitude differential examples in the illustration are indicated in 10-meter/33-foot steps. Current altitude less than most recent measured altitude Recording time (Hour : Minutes) L Altitude differential is indicated in the range of ± 15 meters, in 1-meter units. Altitude is calculated and displayed using meters as the standard. Altitude can also be read in feet units as shown in the illustration. Periodic Records Periodic records show only data for the last save session performed with the watch.

There can be up to 40 periodic records in memory. To turn display of the altitude differential pointer on and off 1. In the Altimeter Mode, hold down E until SET appears in the upper display area. 2. Release E, and wait for four or five more seconds until either OFF or the current reference altitude value (if set) start to flash.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

This is the setting screen. 3. Press D twice to display the pointer on/off setting screen. 4. Press C to toggle display of the altitude differential pointer on (ON displayed) and off (OFF displayed).

5. When the setting is the way you want, press E to exit the setting screen. Current Session Record Contents The following data items show the contents of the current session record. Data Type High Altitude Low Altitude Total Ascent Total Descent Relative Altitude Change Screen Name MAX MIN ASC DSC REL ll ll ll ll Altitude Alarm The altitude alarm sounds for about five seconds when the current altitude matches a preset value during an altitude measurement operation. You can press any button to stop the alarm after it starts to sound. The altitude alarm sounds only while the Altimeter Mode's Altitude Screen is on the display. It does not sound while the watch is in another mode or while another Altimeter Mode screen is on the display. Example If you set the altitude alarm at 130 meters, it sounds when you pass the 130meter mark on your way up and on your way back down. ll ll · The horizontal axis represents time, and the flashing dot in the rightmost column indicates the latest measurement result. For the first three minutes, each dot represents five seconds.

After that, each dot represents two minutes. · An out of range measurement result or a measurement error will cause the column of dots for that measurement to be blank (skipped). ll ll ll ll Description Highest altitude reached during the recalled session. Lowest altitude reached during the recalled session. Total cumulative ascent during the recalled session.

Total cumulative descent during the recalled session. Relative change in altitude during the recalled session. L Recording date (Month Day) ll ll ll ll 5 Operation Guide 2894 World Time Historical Record The historical record shows data for all save sessions performed since the last time the historical record was cleared. Data Type High Altitude Low Altitude Total Ascent Total Descent Screen Name MAX MIN ASC DSC Current time in the zone of the selected city code Description Highest altitude reached during all sessions. Lowest altitude reached during all sessions.

Total cumulative ascent during all sessions. Total cumulative descent during all sessions. World Time digitally displays the current time in 30 cities (29 time zones) around the world. · For full information on city codes, see the "City Code Table". · All of the operations in this section are performed in the World Time Mode, which you enter by pressing D. Timekeeping Mode time To view the time in another city In the World Time Mode, use C (east) and A (west) to scroll through city codes (time zones). · When the currently selected time zone is one that includes mostly ocean, a value indicating the zone's Greenwich Mean Time differential appears in place of a city code. · If the current time shown for a city is wrong, check your Home City time settings and make the necessary changes. To view periodic records and current session record contents 1. Enter the Data Recall Mode.

2. Use the C and A to scroll through the data and display the one you want. Periodic records C REC(1) REC(2) REC(40) Current session record A MAX MIN ASC DSC REL To toggle a city code time between Standard Time and Daylight Saving Time 1. In the World Time Mode, Use C (east) and A (west) to display the city code (time zone) whose Standard Time/Daylight Saving Time setting you want to change. 2. Hold down E to toggle between Daylight Saving Time (DST indicator displayed) and Standard Time (DST indicator not displayed). · The DST indicator appears on the display whenever you display a city code for which Daylight Saving Time is turned on. · You cannot toggle between Daylight Saving Time and Standard Time if the displayed city code is GMT. · Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

· To view the current session record contents, use C to scroll forward past the last periodic record (which will display the current session record MAX screen), or A to scroll back past the first periodic record (to the REL screen). 3. After you are finished viewing data, press D to exit the Data Recall Mode. · Dashes (xxxxx) will be displayed if data has been deleted or if there is no corresponding data due to error, etc. In such cases, total ascent and total descent values will show zero.

To view historical record contents 1. Enter the Data Recall Mode. 2. Press B to display the historical record high altitude screen (MAX). 3. Use the C and A to scroll through the historical record screens as shown below. Historical record data items C MAX A MIN ASC DSC Stopwatch Minutes 1/100 second 4. To return to the periodic record and current session screens, press B again. 5. After you are finished viewing data, press D to exit the Data Recall Mode. Hours Clearing the Historical Record Use the following procedure when you want to clear the contents of the historical record and restart all values from zero. To clear the historical record 1. In the Data Recall Mode, press B to display the high altitude data (MAX) of the historical record. 2. Hold down E.

· CLR will appear in the upper part of the display. 3. Keep E held down for an additional two seconds until CLR starts flashing. · The historical record high altitude screen will reappear when data deletion is complete. · If you release the E button part way through the above procedure, the watch will return to the historical record high altitude screen without deleting the data. Timekeeping Mode time Seconds The stopwatch lets you measure elapsed time, split times, and two finishes. · The display range of the stopwatch is 9 hours, 59 minutes, 59.99 seconds. · The stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it. · The stopwatch measurement operation continues even if you exit the Stopwatch Mode.

· Exiting the Stopwatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement. · All of the operations in this section are performed in the Stopwatch Mode, which you enter by pressing D. To measure times with the stopwatch Elapsed Time C C Start Stop Split Time C A Start Split (sp displayed) Two Finishes C A Start Split First runner finishes. Display time of first runner. L L L C Re-start C Stop A Clear L L L A Split release C Stop A Clear L L L C Stop Second runner finishes.

A Split release Display time of second runner. A Clear L L L 6 Operation Guide 2894 Countdown Timer Minutes Seconds Alarms You can set a countdown timer start time in the range of one minute to 60 minutes.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

An alarm sounds when the countdown reaches zero. An auto-repeat feature causes the countdown to restart automatically when the end of a countdown is reached, and a progress beeper signals the progress of the countdown. · All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing D.

Alarm on indicator Hourly time signal on indicator Alarm number Timekeeping Mode time Configuring the Countdown Timer The following are the settings you should configure before actually using the countdown timer. · Countdown start time · Auto-repeat on/off · Progress beeper on/off Timekeeping Mode time Alarm time (Hour : Minutes) You can set five independent daily alarms. When an alarm is turned on, the alarm tone sounds when the alarm time is reached.

@@@SIG is shown when the Hourly Time Signal screen is on the display. @@@@ @@@@ @@@@ @@@@ @@@@ 2. @@@@ · This automatically turns on the alarm. 3. Press D to move the flashing between the hour and minute settings. 4. While a setting is flashing, use C (+) and A (-) to change it.

@@(no indicator) or p.m. (P indicator). 5. @@@@ @@@@ @@@@ @@@@ Press C again to resume the countdown. @@@@ This returns the countdown time to its starting value. @@ In the Alarm Mode, use C and A to select an alarm or the Hourly Time Signal. 2. When the alarm or the Hourly Time Signal you want to is selected, press B to turn it on and off.

Indicates alarm is ON. Indicates Hourly Time Signal is ON. · The alarm on indicator () and the Hourly Time Signal on indicator () are shown on the display in all modes while these functions are turned on. · If any alarm is on, the alarm on indicator is shown on the display in all modes. Pressing A while the countdown start time is on the display or while a countdown timer operation is in progress in the Countdown Timer Mode toggles progress beeper operation on (displayed) and off (not displayed).

Illumination Auto light switch on indicator The display of the watch is illuminated using an EL (electro-luminescent) panel for easy reading in the dark. The watch's auto light switch automatically turns on illumination when you angle the watch towards your face. · The auto light switch must be turned on (indicated by the auto light switch on indicator) for it to operate. · You can specify 1.5 seconds or 2.

5 seconds as the illumination duration. · See "Illumination Precautions" for other important information about using illumination. To turn on illumination manually Press L in any mode to illuminate the display. · The above operation turns on illumination regardless of the current auto light switch setting. · Illumination is disabled while the Digital Compass, Barometer/ Thermometer, or Altimeter Mode setting screen is on the display. 7 Operation Guide 2894

About the Auto Light Switch Turning on the auto light switch causes illumination to turn on, whenever you position your wrist as described below in any mode. Note that this watch features a "Full Auto EL Light", so the auto light switch operates only when available light is below a certain level. It does not illuminate the display under bright light. Moving the watch to a position that is parallel to the ground and then tilting it towards you more than 40 degrees causes illumination to turn on. · Wear the watch on the outside of your wrist.

Parallel to ground Question: How does the barometer work? Answer: Barometric pressure indicates changes in the atmosphere, and by monitoring these changes you can predict the weather with reasonable accuracy. Rising atmospheric pressure indicates good weather, while falling pressure indicates deteriorating weather conditions. The barometric pressures that you see in the newspaper and on the TV weather report are measurements corrected to values measured at 0 m sea level. Question: How does the altimeter work? Answer: Generally, air pressure and temperature decrease as altitude increases. This watch bases its altitude measurements on International Standard Atmosphere (ISA) values stipulated by the International Civil Aviation Organization (ICAO). These values define relationships between altitude, air pressure, and temperature. Altitude Air Pressure 616 hPa 3500 m 3000 m 2500 m 2000 m 1500 m 1000 m 0m 500 m 701 hPa 795 hPa 899 hPa 1013 hPa About 8 hPa per 100 m About 9 hPa per 100 m About 10 hPa per 100 m About 11 hPa per 100 m About 12 hPa per 100 m More than 40° Temperature 11°C 4.5°C 2°C 8.5°C 15°C About 6.5°C per 1000 m Warning! · Always make sure you are in a safe place whenever you are reading the display of the watch using the auto light switch.

Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not startle or distract others around you. · When you are wearing the watch, make sure that its auto light switch is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury. 4000 m To turn the auto light switch on and off In any mode except while a setting is flashing on the display, hold down L for about three seconds to toggle the auto light switch on (A.

EL displayed) and off (A.EL not displayed). · The auto light switch on indicator (A.EL) is on the display in all modes while the auto light switch is turned on. · The auto light switch turns off automatically whenever battery power drops to Level 4.

· Illumination may not turn on right away if you raise the watch to your face while a barometric pressure or altitude measurement operation is in progress. · The auto light switch is always disabled, regardless of its on/off setting, when any one of the following conditions exists. While an alarm is sounding During sensor measurement While the Digital Compass, Barometer/Thermometer, or Altimeter Mode setting screen is displayed 14000 ft 12000 ft 10000 ft 8000 ft 6000 ft 4000 ft 2000 ft 0 ft 19.03 inHg 22.23 inHg 25.84 inHg 29.92 inHg About 0.15 inHg per 200 ft About 0.17 inHg per 200 ft 16.2°F 30.

5°F About 3.6°F per 1000 ft About 0.192 inHg per 200 ft 44.7°F About 0.21 inHg per 200 ft 59.0°F Source: International Civil Aviation Organization · Note that the following conditions will prevent you from obtaining accurate readings: When air pressure changes because of changes in the weather Extreme temperature changes When the watch itself is subjected to strong impact There are two standard methods of expressing altitude: Absolute altitude and relative altitude. Absolute altitude expresses an absolute height above sea level. Relative altitude expresses the difference between the height of two different places.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

To specify the illumination duration 1. In the Timekeeping Mode, hold down E until the city code starts to flash, which indicates the setting screen. 2. Press D three times to move the flashing to the seconds setting. 3. Press A to toggle the illumination duration setting between 2.5 seconds () and 1.5 seconds (). 4. After the setting is the way you want, press E to exit the setting screen. Height of building 130 m (relative altitude) Rooftop at an altitude of 230 m above sea level (absolute altitude) III III II Sea Level Precautions Concerning Simultaneous Measurement of Altitude and Temperature Though you can perform altitude and temperature measurements at the same time, you should remember that each of these measurements requires different conditions for best results. With temperature measurement, it is best to remove the watch from your wrist in order to eliminate the effects of body heat.

In the case of altitude measurement, on the other hand, it is better to leave the watch on your wrist, because doing so keeps the watch at a constant temperature, which contributes to more accurate altitude measurements. The following describes what you should do to give priority to either altitude or temperature. · To give altitude measurement priority, leave the watch on your wrist or in any other location where the temperature of the watch is kept constant. · To give temperature measurement priority, remove the watch from your wrist and allow it to hang freely from your bag or in another location where it is not exposed to direct sunlight. Note that removing the watch from your wrist can momentarily affect pressure sensor readings. III Questions & Answers Question: What causes incorrect direction readings? Answer: · Incorrect bidirectional calibration. Perform bidirectional calibration. · Nearby source of strong magnetism, such as a household appliance, a large steel bridge, a steel beam, overhead wires, etc., or an attempt to perform direction measurement on a train, boat, etc. Move away from large metal objects and try again.

Note that digital compass operation cannot be performed inside a train, boat, etc. Question: What causes different direction readings to produce different results at the same location? Answer: Magnetism generated by nearby high-tension wires is interfering with detection of terrestrial magnetism. Move away from the high-tension wires and try again. Question: Why am I having problems taking direction readings indoors? Answer: A TV, personal computer, speakers, or some other object is interfering with terrestrial magnetism readings. Move away from the object causing the interference or take the direction reading outdoors. Indoor direction readings are particularly difficult inside ferro-concrete structures. Remember that you will not be able to take direction readings inside of trains, airplanes, etc. III 8 Operation Guide 2894 Power Supply This watch is equipped with a solar cell and a special rechargeable battery (secondary battery) that is charged by the electrical power produced by the solar cell. The illustration shown below shows how you should position the watch for charging. Example: Orient the watch so its face is pointing at a light source.

· The illustration shows how to position a watch with a resin band. · Note that charging efficiency drops when any part of the solar cell is blocked by clothing, etc. · You should try to keep the watch outside of your sleeve as much as possible. Even if the face of the watch is only partially blocked from light, charging will be significantly reduced. Solar cell Charging Precautions Certain charging conditions can cause the watch to become very hot. Avoid leaving the watch in the areas described below whenever charging its rechargeable battery. Also note that allowing the watch to become very hot can cause its liquid crystal display to black out. The appearance of the LCD should become normal again when the watch returns to a lower temperature. Warning! Leaving the watch in bright light to charge its rechargeable battery can cause it to become quite hot. Take care when handling the watch to avoid burn injury.

The watch can become particularly hot when exposed to the following conditions for long periods. · On the dashboard of a car parked in direct sunlight · Too close to an incandescent lamp · Under direct sunlight Charging Guide After a full charge, timekeeping remains enabled for up to about six months. · The following table shows the amount of time the watch needs to be exposed to light each day in order to generate enough power for normal daily operations. Exposure Level (Brightness) Outdoor Sunlight (50,000 lux) Sunlight Through a Window (10,000 lux) Daylight Through a Window on a Cloudy Day (5,000 lux) Indoor Fluorescent Lighting (500 lux) Approximate Exposure Time 5 minutes 21 minutes 42 minutes 7 hours Important! · Storing the watch for long periods in an area where there is no light or wearing it in such a way that it is blocked from exposure to light can cause rechargeable battery power to run down. Be sure that the watch is normally exposed to bright light whenever possible. · This watch uses a special rechargeable battery to store power produced by the solar cell, so regular battery replacement is not required. However, after very long use, the rechargeable battery may lose its ability to achieve a full charge. If you experience problems getting the special rechargeable battery to fully charge, contact your dealer or CASIO distributor about having it replaced. · Never try to remove or replace the watch's special battery yourself. Use of the wrong type of battery can damage the watch.

· All data stored in memory is deleted, and the current time and all other settings return to their initial factory defaults whenever battery power drops to Level 5 and when you have the battery replaced. · Turn on the watch's Power Saving function and keep it in an area normally exposed to bright light when storing it for long periods. This helps to keep the rechargeable battery from going dead. Battery Power Indicator and Recover Indicator The battery power indicator on the display shows you the current status of the rechargeable battery's power. Level 1 2 3 II · Since these are the specs, we can include all the technical details. · Watch not exposed to light · Internal timekeeping · Display on 18 hours per day, sleep state 6 hours per day · 1 illumination operation (1.5 seconds) per day · 10 seconds of alarm operation per day · 10 digital compass operations per week · 10 hours of altimeter measurements, once per month · Stable operation is promoted by frequent charging. Recovery Times The table below shows the amount exposure that is required to take the battery from one level to the next. Approximate Exposure Time Exposure Level (Brightness) Level 5 Level 4 Level 3 Level 2 Level 1 Battery Power Indicator Function Status All functions enabled.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

All functions enabled.

Illumination, beeper, and sensor operation disabled. L L L llll ll l ll Outdoor Sunlight (50,000 lux) Sunlight Through a Window (10,000 lux) 2 hours 4 hours 8 hours 13 hours 63 hours 128 hours 6 hours 29 hours 58 hours Battery power indicator (Charge Soon Alert) 4 l ll ll 1 5 · The flashing LOW indicator at Level 3 tells you that battery power is very low, and that exposure to bright light for charging is required as soon as possible. · At Level 5, all functions are disabled and settings return to their initial factory defaults. Once the battery reaches Level 2 (indicated by M indicator) after falling to Level 4, reconfigure the current time, date, and other settings. · Display indicators reappear as soon as the battery is charged from Level 4 to Level 2.

· Leaving the watch exposed to direct sunlight or some other very strong light source can cause the battery power indicator to show a reading temporarily that is higher than the actual battery level. The correct battery level should be indicated after a few minutes. · Performing multiple sensor, illumination, or beeper operations during a short period may cause RECOV to appear on the display. Illumination, alarm, countdown timer alarm, hourly time signal, and sensor operations will be disabled until battery power recovers. After some time, battery power will recover and RECOV will disappear, indicating that the above functions are enabled again.

Recover indicator · Even if battery power is at Level 1 or Level 2, the Digital Compass Mode, Barometer/Thermometer Mode, or Altimeter Mode sensor may be disabled if there is not enough voltage available to power it sufficiently. This is indicated by RECOV on the display. · If RECOV appears frequently, it probably means that remaining battery power is low. Leave the watch in bright light to allow it to charge. lllll ll l Except for timekeeping and indicator, all the functions and display indicators are disabled. All functions disabled. Daylight Through a Window on a Cloudy Day (5,000 lux) Indoor Fluorescent Lighting (500 lux) ll ll ll 80 hours ----- · The above exposure time values are all for reference only. Actual required exposure times depend on lighting conditions. Reference This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Auto Return Features · The watch automatically returns to the Timekeeping Mode if you do not perform any button operation for two or three minutes in the Data Recall, Alarm, Digital Compass, or Barometer/Thermometer Mode. · If you do not perform any button operation while in the Altimeter Mode, the watch automatically returns to the Timekeeping Mode after nine or 10 hours. · If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch automatically exits the setting screen. Scrolling The A and C buttons are used on the setting screen to scroll through data on the display. In most cases, holding down these buttons during a scroll operation scrolls through the data at high speed. 9 Operation Guide 2894 Sensor Malfunction Indicator Subjecting the watch to strong impact can cause sensor malfunction or improper contact of internal circuitry. When this happens, ERR (error) will appear on the display and sensor operations will be disabled. Digital Compass Measurement Barometric Pressure Measurement Altitude Measurement · The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is applied in all modes. · The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except when battery power drops to Level 4.

· The current time for all city codes in the Timekeeping Mode and World Time Mode is calculated in accordance with the Greenwich Mean Time (GMT) differential for each city, based on your Home City time setting. · GMT differential is calculated by this watch based on Universal Time Coordinated (UTC) data. Illumination Precautions · The electro-luminescent panel that provides illumination loses power after very long use. · Illumination may be hard to see when viewed under direct sunlight. · Illumination automatically turns off whenever an alarm sounds.

· The watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction. · Frequent use of illumination runs down the battery. · If ERR appears while a measurement operation is being performed in a sensor mode, restart the measurement. If ERR appears on the display again, it can mean there is something wrong with the sensor.

· Even if battery power is at Level 1 or Level 2, the Digital Compass Mode, Barometer/Thermometer Mode, or Altimeter Mode sensor may be disabled if there is not enough voltage available to power it sufficiently. In this case, ERR will appear on the display. This does not indicate malfunction, and sensor operation should resume once battery voltage returns to its normal level. · If ERR keeps appearing during measurement, it could mean there is a problem with the applicable sensor. Whenever you have a sensor malfunction, be sure to take the watch to your original dealer or nearest authorized CASIO distributor as soon as possible. Auto light switch precautions · Wearing the watch on the inside of your wrist, movement of your arm, or vibration of your arm can cause frequent activation of the auto light switch and illumination of the display. To avoid running down the battery, turn off the auto light switch whenever engaging in activities that might cause frequent illumination of the display. · Note that wearing the watch under your sleeve while the auto light switch is turned on can cause frequent illumination of the display and can run down the battery. More than 15 degrees too high Power Saving When turned on, Power Saving automatically enters a sleep state whenever the watch is left for a certain period in an area where it is dark. The table below shows how watch functions are affected by Power Saving.

· There are actually two sleep state levels: "display sleep" and "function sleep". · Illumination may not turn on if the face of the watch is more than 15 degrees above or below parallel. Make sure that the back of your hand is parallel to the ground. · Illumination turns off after the preset illumination duration (see "To specify the illumination duration"), even if you keep the watch pointed towards your face. Elapsed Time in Dark 60 to 70 minutes (Display Sleep) 6 or 7 days (Function Sleep) Display Blank, with PS flashing Blank, with PS not flashing Operation Display is off, but all functions are enabled.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>

All functions are disabled, but timekeeping is maintained. · Wearing the watch inside the sleeve of clothing can cause it to enter the sleep state. · The watch will not enter the sleep state while the digital time is between 6:00 AM and 9:59 PM. If the watch is already in the sleep state when the digital time reaches 6:00 AM, however, it will remain in the sleep state. · The watch will not enter the sleep state while it is in the Countdown Timer or Stopwatch Mode. · Static electricity or magnetic force can interfere with proper operation of the auto light switch. If illumination does not turn on, try moving the watch back to the starting position (parallel with the ground) and then tilt it back towards your face again. If this does not work, drop your arm all the way down so it hangs at your side, and then bring it back up again. · Under certain conditions, illumination does not turn on until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction. · You may notice a very faint clicking sound coming from the watch when it is shaken back and forth. This sound is caused by mechanical operation of the auto light switch, and does not indicate a problem with the watch. Digital Compass Precautions This watch features a built-in magnetic bearing sensor that detects terrestrial magnetism. This means that north indicated by this watch is magnetic north, which is somewhat different from true polar north. The magnetic north pole is located in northern Canada, while the magnetic south pole is in southern Australia. Note that the difference between magnetic north and true north as measured with all magnetic compasses tends to be greater as one gets closer to either of the magnetic poles. You should also remember that some maps indicate true north (instead of magnetic north), and so you should make allowances when using such maps with this watch. Location · Taking a direction reading when you are near a source of strong magnetism can cause large errors in readings. Because of this, you should avoid taking direction readings while in the vicinity of the following types of objects: permanent magnets (magnetic necklaces, etc.), concentrations of metal (metal doors, lockers, etc.), high tension wires, aerial wires, household appliances (TVs, personal computers, washing machines, freezers, etc.) · Accurate direction readings are impossible while in a train, boat, air plane, etc. · Accurate readings are also impossible indoors, especially inside ferroconcrete structures. This is because the metal framework of such structures picks up magnetism from appliances, etc. Storage · The precision of the bearing sensor may deteriorate if the watch becomes magnetized.

Because of this, you should be sure to store the watch away from magnets or any other sources of strong magnetism, including: permanent magnets (magnetic necklaces, etc.) and household appliances (TVs, personal computers, washing machines, freezers, etc.) · Whenever you suspect that the watch may have become magnetized, perform one of the calibration procedures under "Calibrating the Bearing Sensor". To recover from the sleep state Perform any one of the following operations. · Move the watch to a well-lit area. It can take up to two seconds for the display to turn on. · Press any button. · Angle the watch towards your face for readings. To turn Power Saving on and off 1. In the Timekeeping Mode, hold down E until the city code starts to flash, which indicates the setting screen.

2. Press D nine times until the Power Saving on/off screen appears. 3. Press C to toggle Power Saving on (ON) and off (OFF). 4. Press E to exit the setting screen. · The Power Saving on indicator (PS) is on the display in all modes while Power Saving is turned on. llll llll llll ll Power Saving on indicator Timekeeping · Resetting the seconds to 00 while the current count is in the range of 30 to 59 causes the minutes to be increased by 1. In the range of 00 to 29, the seconds are reset to 00 without changing the minutes. · With the 12-hour format, the P (PM) indicator appears on the display for times in the range of noon to 11:59 p.m. and no indicator appears for times in the range of midnight to 11:59 a.m. · With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicator. ll 10 Operation Guide 2894 Calibrating the Bearing Sensor Whenever you suspect that direction readings produced by the watch are wrong, you should calibrate it. You can use either one of two calibration procedures: bidirectional calibration or northerly calibration. Use bidirectional calibration when you want to take readings within an area exposed to magnetic force. This type of calibration should be used if the watch becomes magnetized for any reason. With northerly calibration, you "teach" the watch which way is north (which you have to determine with another compass or some other means). You could use this calibration procedure, for example, to set the watch to indicate true north instead of magnetic north.

Important! · If you want to perform both bidirectional and northerly calibration, be sure to perform bidirectional calibration first, and then perform northerly calibration. This is necessary because bidirectional calibration cancels any previously set northerly calibration setting. · The more correctly you perform bidirectional calibration, the better the accuracy of the bearing sensor readouts. You should perform bidirectional calibration whenever you change environments where you use the bearing sensor, and whenever you feel that the bearing sensor is producing incorrect readings. Precautions about bidirectional calibration · You can use any two opposing directions for bidirectional calibration. You must, however, make sure that they are 180 degrees opposite each other. Remember that if you perform the procedure incorrectly, you will get wrong bearing sensor readings. · Make sure that you do not move the watch while calibration of either direction is in progress. · You should perform bidirectional calibration in an environment that is the same as that where you plan to be taking direction readings. If you plan to take direction readings in an open field, for example, calibrate in an open field.

Barometer and Thermometer Precautions · The pressure sensor built into this watch measures changes in air pressure, which you can then apply to your own weather predictions. It is not intended for use as a precision instrument in official weather prediction or reporting applications. · Sudden temperature changes can affect pressure sensor readings. · Temperature measurements are affected by your body temperature (while you are wearing the watch), direct sunlight, and moisture. To achieve a more accurate temperature measurement, remove the watch from your wrist, place it in a well ventilated location out of direct sunlight, and wipe all moisture from the case.



[You're reading an excerpt. Click here to read official CASIO PRO TREK PRG-80T MODULE 2894 user guide](http://yourpdfguides.com/dref/524255)
<http://yourpdfguides.com/dref/524255>