



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO PRG-40. You'll find the answers to all your questions on the CASIO PRG-40 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

## User manual CASIO PRG-40 User guide CASIO PRG-40 Operating instructions CASIO PRG-40 Instructions for use CASIO PRG-40 Instruction manual CASIO PRG-40

### Module No. 2271

2271-1

#### GETTING ACQUAINTED

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

#### Applications

The built-in sensors of this watch measure direction, altitude, barometric pressure, and temperature. Measured values are then shown on the display. Such features make this watch useful when hiking, mountain climbing, or when engaging in other such outdoor activities.

#### Warning!

- The measurement functions built into this watch are not intended for taking measurements that require professional or industrial precision. Values produced by this watch provide only approximate and non-warrantable representations only.
- When engaging in mountain climbing or other activities in which losing your way can create a dangerous or life-threatening situation, always be sure to use a second compass to confirm direction readings.
- CASIO-COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch.

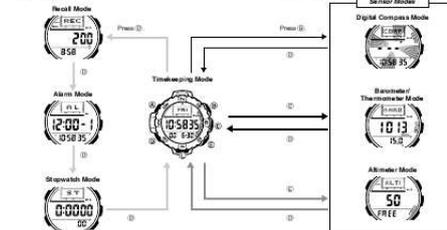
#### About This Manual



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

#### GENERAL GUIDE

- If the digital display of your watch is continuously changing, see "Auto Display Function" for information on how to stop it.
- The illustration below shows which buttons you need to press to navigate between modes.



#### TIMEKEEPING

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

- To reset the seconds counter to zero**
- In the Timekeeping Mode, hold down (D) until the second digit starts to flash, which indicates the setting screen.
  - Press (E) to reset the seconds out to 00.
  - Pressing (E) while the seconds count is in the range of 30 to 59 resets the seconds to 00. Repeating (E) to the minutes in the range of 00 to 59, the minutes count is reset.
  - Press (E) to exit the setting screen.

#### To set the time and date

- In the Timekeeping Mode, hold down (D) until the second digit starts to flash, which indicates the setting screen.
- Press (E) to move the flashing in the sequence shown below to select other settings.



- While a setting is flashing, use (C) and (D) (+/-) to change it.
- When the 24-hour setting is selected, press (E) or (D) to toggle between 12-hour (12H) and 24-hour (24H) timekeeping.
- Press (E) to exit the setting screen.



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)  
<http://yourpdfguides.com/dref/1077659>

### Manual abstract:

@@@@@@@ Measured values are then shown on the display. Such features make this watch useful when hiking, mountain climbing, or when engaging in other such outdoor activities. Warning! · The measurement functions built into this watch are not intended for taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonable representations only. · When engaging in mountain climbing or other activities in which losing your way can create a dangerous or life-threatening situation, always be sure to use a second compass to confirm direction readings. · CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch. (Light) GENERAL GUIDE · If the digital display of your watch is continuously changing, see "Auto Display Function" for information on how to stop it. · The illustration below shows which buttons you need to press to navigate between modes.

Recall Mode · In any mode, hold down D for about one second to return to the Timekeeping Mode. · You can use buttons B, C, and E to directly enter a sensor mode from the Timekeeping Mode or from another sensor mode. To get to a sensor mode from the Recall, Alarm, or Stopwatch Mode, you must go to the Timekeeping Mode first. Sensor Modes Digital Compass Mode Press D. Press B.

L L D D Timekeeping Mode Barometer/ Thermometer Mode C Alarm Mode L D L L E Stopwatch Mode D TIMEKEEPING PM indicator Day of week Use the Timekeeping Mode to set and view Seconds the current time and date. To reset the seconds count to zero 1. In the Timekeeping Mode, hold down A until the second digits start to flash, which indicates the setting screen. 2. Press E to reset the seconds count to 00.

· Pressing E while the seconds count is in the range of 30 to 59 resets the seconds to 00 and adds 1 to the minutes. In the range of 00 to 29, the minutes count is unchanged. 3. Press A to exit the setting screen. Year Hour : Minutes Month Day L L D L L D L Altimeter Mode L D To set the time and date 1. In the Timekeeping Mode, hold down A until the second digits start to flash, which indicates the setting screen. 2. Press D to move the flashing in the sequence shown below to select other settings. 12/24-Hour Format Year Seconds Hour Minutes Day Month 3. While a setting is flashing, use E (+) and B (-) to change it.

· When the 12/24-hour setting is selected, press E or B to toggle between 12-hour (12H) and 24-hour (24H) timekeeping. 4. Press A to exit the setting screen. 2271-2 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. Understanding the Barometer/Thermometer Screen Barometric pressure graph (unit: 1hPa (mb)/0.05 inHg) To enter and exit the Digital Compass Mode 1. While in the Timekeeping, Barometer/Thermometer, or Altimeter Mode, press B to enter the Digital Compass Mode. · At this time, the watch immediately starts 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. 2. Press D to return to the Timekeeping Mode. Temperature Barometric pressure Press C to enter the Barometer/Thermometer Mode. · Barometric pressure is displayed in units of 1hPa/mb (or 0.

05inHg). · Temperature is displayed in units of 0.1°C (or 0.2°F). · The displayed barometric pressure value changes to xxxx hPa/mb (or inHg) if a measured barometric pressure falls outside the range of 260 hPa/mb to 1100 hPa/mb (7.

65 inHg to 32.45 inHg). The barometric pressure value will be displayed again as soon as the measured barometric pressure is within the allowable range. To take a direction reading 1. Enter the Digital Compass Mode. 2. Place the watch on a flat surface or (if you are wearing the watch), make sure that your wrist is horizontal (in relation to the Direction horizon). 3. Point the 12 o'clock position of the watch in the direction you want to measure. 4.

Press B to start a Digital Compass measurement operation. · After about two seconds, the direction that the 12 o'clock position of the watch is pointing appears on the display. Timekeeping Mode time · Also, four pointers appear to indicate magnetic north, south, east, and west. Direction value (in degrees) · After the first reading is obtained, the watch continues to take direction W NW NNW WN 0° N readings automatically each second, for up to 30 seconds. · The COMP indicator flashes on the display while a measurement is in progress. · The direction value that appears on the display represents the clockwise angle formed between magnetic north (which is 0 degrees) and the displayed direction. Magnetic north pointer 12 o'clock position W SW WSW W · The displayed temperature value changes to xx. x °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 be displayed again as soon as the measured temperature is within the allowable range. · Some countries refer to the barometric pressure unit hecto-pascal (hPa) as millibars (mb). It really makes no difference, because 1hPa = 1mb.

In this manual, we use hPa/mb or hPa (mb). Barometric Pressure Graph Barometric pressure indicates changes in the atmosphere. By monitoring these changes you can predict the weather with reasonable accuracy. The barometric pressure graph shows the barometric readings for the past 26 hours. The flashing point on the right of the display is the point for the newest measurement.

Note that pressure graph readings are relative to the newest measurement point. One dot above the newest point is plus 1hPa(mb)/0.05inHg, while one dot below is minus 1hPa(mb)/0.05inHg. The following shows how to interpret the data that appears on the barometric pressure graph. NN E NE ENE A rising graph generally means improving weather. A falling graph generally means deteriorating weather. Note that if there are sudden changes in weather or temperature, the graph line of past measurements may run off the top or bottom of the display. The entire graph will Not visible on become visible once barometric conditions stabilize. the display.

The following conditions cause the barometric pressure measurement to be skipped, with the corresponding point on the barometric pressure graph being left blank. · Barometric reading that is out of range (260 hPa/mb to 1100 hPa/mb or 7.65 inHg to 32.45 inHg) · Sensor malfunction · Dead batteries SS E S Note · Note that taking a measurement while the watch is not horizontal (in relation to the horizon) can result in large measurement error.



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)  
<http://yourpdfguides.com/dref/1077659>

· Pressing B while in the Digital Compass Mode starts a new direction measurement operation. · The following table shows the meanings of each of the direction abbreviations that appear on the display. Direction Meaning N E S W This watch uses a pressure sensor to measure air pressure (barometric pressure) and a temperature sensor to measure a temperature. · You can calibrate the temperature sensor and the pressure sensor if you suspect that readings are incorrect. E SE SSE ES Direction North East South West Meaning Direction Meaning NorthNortheast NE northeast EastESE SE Southeast southeast SouthSSW SW Southwest southwest WestWNW NW Northwest northwest NNE Direction Meaning Eastnortheast SouthSSE southeast WestWSW southwest NorthNNW northwest ENE About Barometric and Temperature Measurements · Barometric pressure and temperature measurement operations are performed as soon as you enter the Barometer/Thermometer Mode. After that, temperature measurements are taken every five seconds for the first three minutes, and then taken every five minutes thereafter.

· The BARO indicator flashes on the display while a measurement is in progress. · The barometer automatically takes measurements every two hours (starting from midnight), regardless of what mode you are in. The results of these measurements are used for the barometric pressure graph. · You can also perform a barometric pressure and temperature measurement at any time by pressing C in the Barometer/Thermometer Mode. Direction bezel · You can adjust the rotary direction bezel so that the "N" is aligned with the magnetic north pointer.

This correctly aligns all of the markings on the bezel. · The Digital Compass operation is automatically interrupted whenever an alarm (Daily Alarm or Hourly Time Signal) sounds. If this happens, start the Digital Compass operation again from the beginning. · See "Digital Compass Precautions" for other important information about taking direction readings. 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 off all moisture from the case. It takes approximately 20 to 30 minutes for the case of the watch to reach the actual surrounding temperature. · You can change the measured barometric pressure unit between hectopascals/millibars (hPa/mb) and inchesHg (inHg). See "Changing the Barometric Pressure and Temperature Units" for details. · You can change the measured temperature value displayed by this watch between Celsius (°C) and Fahrenheit (°F). See "Changing the Barometric Pressure and Temperature Units". BAROMETER/THERMOMETER 2271-3 ALTIMETER A built-in altimeter uses a pressure sensor to detect the current air pressure, which is then used to estimate the current altitude.

The watch is preprogrammed with ISA (International Standard Atmosphere) preset values, which are used to convert air pressure readings to altitude values. If you preset a reference altitude, the watch will also calculate the current relative altitude based on your preset value. Altimeter functions also include data storage memory and an altitude alarm. Important! · This watch estimates altitude based on air pressure. This means that altitude readings for the same location may vary if air pressure changes. · This watch employs a semiconductor pressure sensor, which is affected by temperature changes. When taking altitude measurements, be sure to do so while ensuring that the watch is not exposed to temperature changes. · Do not rely upon this watch for altitude measurements or perform button operations while engaging in sports where there are sudden altitude changes, while sky diving, hang gliding, or paragliding, or while riding a gyrocopter, glider, or any other aircraft. · Do not use this watch for measuring altitude in applications that demand professional or industrial level precision. Memory measurements Memory measurements are taken independently of Altimeter Mode measurements and stored directly into memory (along with the date and time of the measurement) for later recall.

There are two types of memory measurements: "Auto measurements" and "Manual measurements". Auto measurements With Auto measurement, the watch continuously performs measurements whenever the minutes in the Timekeeping Mode reach 00, 15, 30, or 45, until you set). · 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 xxxx 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 unit of measurement for the displayed altitude values between meters (m) and feet (ft). See "To change the Altitude Units". To use Manual measurement 1. Confirm that the MANUAL indicator is shown on the display. · If it is not, use the procedure under "To select Auto or Manual measurement" to select Manual measurement.

2. In the Altimeter Mode, hold down E until the watch emits a short beep, indicating that a measurement is taken. · Repeat step 2 whenever you want to take a reading. · Button operation becomes impossible during the four or five seconds that it takes to complete a measurement. Normal operation will return once the operation is finished. About Altitude Measurements There are two types of altitude measurements: those for displayed data (Altimeter Mode measurements) and those for memory data (Memory measurements). Setting a Reference Altitude After you set 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. Altimeter Mode measurement This type of measurement is performed only when the watch is in the Altimeter Mode.

As soon as you enter the Altimeter Mode, measurements are taken every five seconds for the first three minutes. After that, measurements are taken every two minutes.



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)  
<http://yourpdfguides.com/dref/1077659>

· The ALTI indicator flashes on the display while a measurement is in progress. 2271-4 To set a reference altitude 1. In the Altimeter Mode, hold down A until the display clears. After four or five seconds, either OFF or the current reference altitude value (if set) will start to flash, which indicates the setting screen. · OFF indicates no reference altitude. 2. Press E to increase the current reference altitude value by 5 meters (or 20 feet) or B to decrease it. · You can set the reference altitude within the range of 10,000 to 10,000 meters (32,800 to 32,800 feet).

· Pressing E and B at the same returns to OFF, so the watch performs air pressure to altitude conversions based on preset data only. 3. Press A to exit the setting screen. Auto Measurement Records · Performing an Auto measurement produces a set of records of all the measurements taken during the Auto measurement session. Since Auto measurement produces four altitude readings per hour (at 00, 15, 30, and 45 minutes of each hour) leaving Auto measurement turned on for two hours would result in a set of eight records.

· The following shows how the records that make up an Auto measurement set appear when you recall them. AUTO indicator Altitude graph L L L First record of the set All records between the initial screen and final screen L Final record of the set About the Altitude Alarm The altitude alarm sounds for about five seconds whenever the current altitude matches a preset value. You can press any button to stop the alarm after it starts to sound. 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. · The altitude graph separates the maximum and minimum altitude readings by nine display dots.

Other readings are shown relative to the maximum and minimum. · Note that Auto measurement records are always treated as a set. This means that deleting one record in a set deletes the entire set. Manual Measurement Records · Performing a Manual measurement produces a single record. The illustration below shows how a Manual measurement record appears when you recall it. MANUAL indicator To set the altitude alarm 1. In the Altimeter Mode, hold down A until the display clears. After four or five seconds, either OFF or the current reference altitude value (if set) will start to flash, which indicates the setting screen. 2. Press D once to move the flashing to the altitude alarm setting.

· Press D to move the flashing in the sequence shown below. Reference Altitude Altitude Alarm Memory Measurement Altitude Unit L L L L To turn the altitude alarm on and off Altitude alarm on indicator Current On/Off status 1. In the Altimeter Mode, hold down A until the display clears. After four or five seconds, either OFF or the current reference altitude value (if set) will start to flash, which indicates the setting screen. 2. Press D once to move the flashing to the altitude alarm setting. 3. Press C to switch the altitude alarm on (ON) and off (OFF). 4. Press A to exit the setting screen.

· If the altitude alarm is on, the altitude alarm on indicator remains on the display when you change to another mode. Highest Altitude Attained Lowest Altitude Attained · When you display the MAX screen, the message MAX alternates every second with the date in the upper display. The message MIN alternates on the MIN screen. · The MIN and MAX records are changed automatically whenever a measurement produces a reading that is greater than the current MAX value or less than the current MIN value. Note · 50 records are enough to store 12 hours and 15 minutes of Auto measurement data (if you do not take any Manual readings during that time).

Important! · Further Auto or Manual measurements become impossible whenever memory is full. The message FULL on the display indicates that memory is full. Always check the amount of memory remaining before starting memory measurements, and delete records if necessary. Memory Data Management Each altitude record includes an altitude reading, plus the month, day, hour, and minutes the measurement was taken. Records are displayed in the order they were saved.

Memory can hold up 50 records. You can store 50 Auto measurement records, 50 Manual measurement records, or any mixed combination of Auto and Manual measurement records. In addition, there are two extra records that show the highest (max) and lowest (min) altitude values, from among the displayed data (Altimeter Mode measurements) and memory data (Memory measurements). The following example illustrates how data would be arranged in memory after you perform one Auto measurement (Auto 1), two Manual measurements (Manual 1, Manual 2), and then one Auto measurement (Auto 2). Auto 1 Manual 1 Manual 2 Auto 2 MAX MIN Recalling Altitude Measurement Records Use the Recall Mode to recall altitude measurement records. You can enter the Recall Mode by pressing the D button. · Measurement records are stored in memory even if an error occurs during the measurement. For details on errors, see "Warning Indicators". To recall altitude measurement records Date · Note that the highest (MAX) and lowest (MIN) records always are last. In the Recall Mode, press E to scroll forward through the stored records or B to scroll backward.

· See "Memory Data Management" for information about how data is stored. Time Altitude L 3. While the altitude alarm setting is flashing, press E to increase the current altitude alarm value by 5 meters (or 20 feet) or B to decrease it. · You can set the altitude alarm value within the range of 10,000 to 10,000 meters (32,800 to 32,800 feet). · Pressing E and B at the same resets the altitude alarm value to 0. 4. Press A to exit the setting screen. MIN and MAX Records · The MIN record shows the lowest altitude reading from among those contained in memory (both Auto and Manual), and the reading displayed in Altimeter Mode. The MAX record shows the highest altitude reading. L L L L L L L L L L L L L L 2271-5 Deleting an Altitude Measurement Record Use the Recall Mode to delete altitude measurement records.

You can enter the Recall Mode by pressing D. Note · The procedure you should use to delete a record depends on if the record was produced by Auto measurement or Manual measurement. · Deleting Auto measurement records deletes the entire set, from the initial record to the final record. · You cannot delete a record that is part of an ongoing Auto measurement operation (indicated when AUTO is flashing on the display). You can, however, delete records from another, already completed measurement operation.

Hours Seconds STOPWATCH The stopwatch lets you measure elapsed time, split times, and two finishes. · The display range of the stopwatch is 23 hours, 59 minutes, 59.



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)

<http://yourpdfguides.com/dref/1077659>



These values define relationships between altitude, air pressure, and temperature. Altitude 616 hPa/mb 3500 m 3000 m 2500 m 2000 m 1500 m 1000 m 0m 500 m 701 hPa/mb 795 hPa/mb 899 hPa/mb 1013 hPa/mb Air Pressure Temperature 11°C 4.5°C 2°C 8.5°C 15°C About 6.5°C per 1000 m Auto Display Function Auto Display function of this watch continually changes the contents of the digital display. Note that you cannot use any of the watch's other functions while the Auto Display function is operating.

To turn the Auto Display off Hold down D for about three seconds until the watch beeps. To turn the Auto Display on In the Timekeeping Mode, hold down D for about three seconds until the watch beeps three times. · Note that the Auto Display function cannot be performed while you are making settings. 4000 m About 8 hPa/mb per 100 m About 9 hPa/mb per 100 m About 10 hPa/mb per 100 m About 11 hPa/mb per 100 m About 12 hPa/mb per 100 m Warning Indicators Warning indicators appear whenever any of the conditions described below occur. Appearance of a warning indicator causes any measurement operation that is currently underway to stop.

Warning indicators appear in the upper display area, and this causes xxx to replace any directional, temperature, barometer, or altitude values on the display. Source: International Civil Aviation Organization 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 Abnormal Magnetic Field Indicator This indicator appears whenever the watch has a problem obtaining a correct direction reading. This condition could indicate that the watch is within a very high magnetic field, and so you should try moving to another location. Also, see "Digital Compass Precautions" for further information on conditions that cause errors. 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 2271-7 Low Battery Indicator This message indicates that battery power is too low to perform the measurement. It appears whenever battery power drops below a certain level, or when you try to perform a measurement under very cold conditions (below about 10°C/14°F). If the cause of the low battery indicator is due to use under cold conditions, normal operation should return after the watch is brought back to normal temperature. If the cause of the low battery indicator is due to low battery power (indicated appears under normal temperatures), you should have the watch's batteries replaced as soon as possible. Note that replacement of the batteries causes all memory contents to be deleted. Auto light switch precautions · Avoid wearing the watch on the inside of your wrist. Doing so causes the auto light switch to operate when it is not needed, which shortens battery life. If you want to wear the watch on the inside of your wrist, turn off the auto light switch feature.

More than 15 degrees too high · The backlight may not light 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. · The backlight turns off in about one second, even if you keep the watch pointed towards your face. Sensor Malfunction Indicator This message flashes on the display to indicate malfunction of pressure sensor circuitry. Note that calibrating the Digital Compass can message to appear.

also cause the In this case, the message does not indicate sensor malfunction, and the condition should be corrected when you re-calibrate the Digital Compass. Important! · If a sensor malfunctions or if battery power is low when it comes time for a measurement to be taken, the measurement value appears as xxxx on the display. In the case of barometric pressure measurement, the corresponding point on the barometric pressure graph is left blank. (sensor malfunction) · There may be cases where the (low battery) message disappears from the display when you or change modes. In this case, you can continue using the watch normally unless the warning indicator reappears.

Whenever you have a sensor malfunction, be sure to take the watch to an authorized CASIO distributor or service provider as soon as possible. · Static electricity or magnetic force can interfere with proper operation of the auto light switch. If the backlight does not light, try moving the watch back to the starting position (parallel with the ground) and then tilt it back toward you 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, the backlight may not light until about one second after you turn the face of the watch towards you. This does not necessarily indicate malfunction of the backlight. 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" below. Auto Return Features · After you perform an operation in the Recall, Alarm, and Stopwatch Modes, pressing D returns to the Timekeeping Mode.



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)

<http://yourpdfguides.com/dref/1077659>

· If you leave the watch in the Digital Compass, Barometer/Thermometer, or Altimeter Mode for 10 to 11 hours without performing any operation, the watch beeps and automatically returns to the Timekeeping Mode. · If you leave a screen with flashing digits on the display for two or three minutes without performing any operation, the watch automatically saves anything you have input up to that point and exits the setting screen.

**Data and Setting Scrolling** The E and B buttons are used in various modes and setting screens 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. **Timekeeping** · The day of the week is automatically displayed in accordance with the date (year, month, and day) settings. · The year can be set in the range of 2000 to 2039. · The watch's built-in full automatic calendar automatically makes allowances for different month lengths and leap years.

Once you set the date, there should be no reason to change it except after you have the watch's batteries replaced. **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 become 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. **12-hour/24-hour Timekeeping Formats** The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is also applied in all modes. · With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and no indicator appears to the left of the hour digits 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, with 24 indicator. **Backlight Precautions** · The electro-luminescent panel that provides illumination loses power after very long use. · The illumination provided by the backlight may be hard to see when viewed under direct sunlight. · The watch will emit an audible sound whenever the display is illuminated.

It does not indicate malfunction of the watch. · The backlight automatically turns off whenever an alarm sounds. · The backlight remains lit for about one second from the point you press the button, even if it is already lit when you press the button. If you keep the button depressed for one second or more, the backlight automatically turns off. · Frequent use of the backlight shortens the battery life.

**To perform bidirectional calibration** 1. Enter the Digital Compass Mode. 2. Hold down A until the upper display area changes to show -1-, which indicates the setting screen. · At this time, the magnetic north pointer flashes at the 12 o'clock position to indicate that the watch is ready to calibrate the first direction. 2271-8 3. Place the watch on a level surface facing any direction you want, and press B to calibrate the first direction. @@ This soon changes to -2- and the magnetic north pointer flashes at the 6 o'clock position to indicate that the watch is ready for the second direction. 4. Rotate the watch 180 degrees. 5. Press B again to calibrate the second direction. @@ After a short while, the watch automatically returns to the Digital Compass Mode screen. **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. · Do not move the watch during the one or two seconds (from the point you press B up to the point that OK appears in the upper display area) that the calibration of each direction is in progress. If you do, the message appears in the upper display area, which means you have to restart the bidirectional calibration procedure from the beginning. during bidirectional calibration can also be · The appearance of caused by local interference. If you suspect that this is the case, move to another location and try the procedure again. · 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. **To calibrate the temperature** 1. Press C to enter the Barometer/ Thermometer Mode. 2.

@@ · A temperature value appears instead of OFF (factory calibration) if you previously calibrated the temperature sensor. 3. Each press of E increases the displayed temperature by 0.1°C (or 0.2°F) while pressing B decreases it. · Pressing B and E at the same time returns to the factory calibration (OFF). · The indicator TEMP ADJ on the display indicates that the temperature value has been calibrated. 4. Press A to return to the Barometer/Thermometer Mode screen. **Calibrating the Barometric Pressure Sensor** The pressure sensor of this watch is calibrated at the factory before shipment and further adjustment is normally not required.

If you notice serious errors in the barometric pressure readings produced by the watch, you can calibrate the sensor to correct the errors. **Important!** Incorrectly calibrating the barometric pressure sensor can result in incorrect readings. Before performing the calibration procedure, compare the readings produced by the watch with those of another reliable and accurate barometer. **To perform northerly calibration** 1. While in the Digital Compass Mode, hold down A until the upper display area changes to show -1-, which indicates the setting screen. 2. Press D to start the northerly calibration procedure. · At this time, the indicator (direction N) appears in the upper display area. 3. @@4.

Press B to start the calibration operation.



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)

<http://yourpdfguides.com/dref/1077659>

@@@ Press C to enter the Barometer/ Thermometer Mode. 2. @@ A temperature value appears instead of OFF (factory calibration) if you previously calibrated the temperature sensor. 3. Press D to move the flashing to the barometric pressure calibration setting. At this time, OFF or the barometric pressure value should be flashing on the display. 4. Each press of E increases the displayed barometric pressure by 1 hPa/ mb (0.05 inHg), while pressing B decreases it.

Pressing B and E at the same time returns to the factory calibration (OFF). 5. Press A to return to the Barometer/Thermometer Mode screen. Changing the Barometric Pressure and Temperature Units Changing the barometric pressure units automatically restarts the barometric pressure graph. To change the Altitude Units 1.

Press E to enter the Altimeter Mode. 2. Hold down A until the display clears. After four or five seconds, either OFF or the current reference altitude value (if set) will start to flash, which indicates the setting screen. 3.

Press D three times to move the flashing to the altitude unit setting. 4. Press E or B to select the unit you want (m or ft). 5. Press A to return to the Altimeter Mode screen. Changing the altitude units automatically turns the altitude alarm off. Changing the altitude units automatically restarts the altitude graph. Performing the above procedure causes altitude values stored in memory also to be converted to the unit you select. To change the Barometric Pressure and Temperature Units 1. Press C to enter the Barometer/ Thermometer Mode.

2. @@ A temperature value appears instead of OFF (factory calibration) if you previously calibrated the temperature sensor. 3. Press D to move the flashing in the sequence shown below. Temperature Calibration Barometric Pressure Calibration °C / °F hPa[mb]/inHg 4. Press D to move the flashing to the unit setting you want to change (°C/°F or hPa[mb]/inHg). 5. Press E or B to select the unit you want. 6. Press A to return to the Barometer/Thermometer Mode screen.

Calibrating the Temperature Sensor The temperature sensor of this watch is calibrated at the factory before shipment and further adjustment is normally not required. If you notice serious errors in the temperature readings produced by the watch, you can calibrate the sensor to correct the errors. Important! Incorrectly calibrating the temperature sensor can result in incorrect readings. Carefully read the following before doing anything. Compare the readings produced by the watch with those of another reliable and accurate thermometer.

If adjustment is required, remove the watch from your wrist and wait for 20 or 30 minutes to give the temperature of the watch time to stabilize. .



[You're reading an excerpt. Click here to read official CASIO PRG-40 user guide](http://yourpdfguides.com/dref/1077659)

<http://yourpdfguides.com/dref/1077659>