Setting the Sound:
The flashing bell symbol will now appear on the display, along with the word "On."
This option controls whether you want to hear the “beeps” during testing.
Press ▲ or ▼ to choose whether to turn the buzzer on or off. (You will hear a beep when you switch to the "on" screen.)
Press M to set.

Setting the Markers and Test Reminder Alarm:
You will now see three markers displayed on your meter, along with the word “Off.”
Your CONTOUR LINK meter can give you the option of marking your test results by turning this option on.
(See pages 30–35 to learn how to use these options!)
Press ▲ or ▼ to turn the marker option on or off.
Press M to set.

Setting the 12 or 24 Hour Clock:
12H will now flash on the display.
Press ▲ or ▼ to choose the 12H or 24H setting.
This option lets you set the meter to display the time as a 12 hour setting with AM and PM or as a 24 hour display (military time).
Press M to set.

Setting the Test Reminder Alarm Time:
You can now select the timing for the alarm to sound. The default setting is 2.0 hours (2.0H); this can be changed to 1.0, 1.5 or 2.5 hours.
Press ▲ or ▼ to change the alarm time.
Press M to set.

Setting the Month and Day format:
m/d will now flash on the display.
Press ▲ or ▼ to choose how you want the date to appear (month/day or day.month).
Press M to set.

You have now completed the setup of your meter!
The final display will remain on for 3 seconds, showing all the options you have chosen.
If you ever want to change the options you have chosen, simply go back to page 26 and follow the Setup instructions.

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Using the Markers and Test Reminder Alarm:

If you have set your meter with the marker option on (see page 29), your meter will display three markers next to your blood glucose test result. (If the Send option is on, the markers will not be displayed until after the result has been sent to the Medtronic device and the display stops flashing.)

Be sure to leave the used test strip in the meter until you have finished marking the results.

- **Pre-meal** = Marks a test result that was taken before a meal.
- **Post-meal** = Marks a test result that was taken after a meal.
- **Logbook** = Marks any result as being unique or different in some way and for which you may want to make notes in your Clinitrol logbook. Seeing a result with this symbol next to it in the memory will help remind you that there is more information recorded about this test result.

Need Help? Bayer Diabetes Care: 1-800-348-8100

If you do not want to mark the test result:

Press M or remove the used test strip to automatically save the test result in the meter memory.

OR

Press ▲ or ▼ until all three markers disappear from the display. Press M and remove the used test strip.

Dispose of the used test strip and lancet properly to prevent injury or contamination to others.

If you want to mark the test result:

Press ▲ or ▼ to move to the marker you want to set. You will know when you have chosen a marker when you see the box around it flashing on the display.

Press M to set.

If you mark a result with the , the will appear with a box flashing around it. This allows you to set an alarm that will go off in 2 hours (or whatever time you have selected in the Setup mode), to remind you to run a post-meal test.

If you want to set the alarm, press M.

**If you do not want to set the alarm**, press ▲ or ▼. The will disappear showing an empty flashing box.

Press M to set.

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**Test Reminder Alarm:**

When the alarm sounds, the meter will automatically turn on, the alarm will sound, and the display will show the pre-meal test result you marked when you set the alarm. Pressing any button will silence the alarm.

You can now run another test by placing a test strip in the test strip port and following the testing instructions (page 10).

When you have completed this test and the result is shown on the display, you may want to mark this test with the symbol to identify this test result as your post-meal result.

If you do not want to run another test immediately after the alarm sounds, press any button to turn your meter off. The meter will only set one alarm. It will remember the last alarm set. Any previous alarm setting will be lost.

**For example:** An alarm has been set. You decide to re-test before that alarm goes off. If you mark the new test result with a pre-meal marker ((symbol) and set a new alarm (symbol), the old alarm setting will be ignored and only the new setting will sound in 2 hours (or in the time you selected in the Setup mode).

**To Cancel a Test Reminder Alarm:**

Press M to enter the meter memory. The 14 day average will appear along with the symbol. Press M again and a box will appear and flash around the symbol.

Press ▲ or ▼. The empty box (symbol) will now indicate the alarm has been turned off.

Press M to set.
<table>
<thead>
<tr>
<th>TO MARK RESULTS</th>
<th>YOU WILL SEE</th>
<th>TO SET</th>
<th>YOU WILL SEE</th>
<th>WHAT IT MEANS</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍏 Pre-Meal</td>
<td>🍏 (ON)</td>
<td>Press M</td>
<td>🍏 93</td>
<td>Result is marked as a pre-meal test. You can now set an alarm.</td>
</tr>
<tr>
<td>🕒 Alarm</td>
<td>☀️ (ON)</td>
<td>Press M</td>
<td>☀️ 93</td>
<td>Alarm is set to go off after a set amount of time to remind you to run a post-meal test.</td>
</tr>
<tr>
<td>🍂 Post-Meal</td>
<td>☀️ (ON)</td>
<td>Press M</td>
<td>☀️ 124</td>
<td>Result is marked as a post-meal test.</td>
</tr>
<tr>
<td>📖 Logbook</td>
<td>☔️ (ON)</td>
<td>Press M</td>
<td>☔️ 124</td>
<td>Result is marked in memory as unique. You should note this in your Logbook.</td>
</tr>
</tbody>
</table>
Using the Memory:

With the meter off, press the M button on the meter to view stored test results.

The 14 day average will appear on the display with the average for test results taken over the last 14 days. If you have set an alarm that has not sounded yet, you will also see a symbol.

Number of results: The number of results included in the average is shown at the top of the display. Your control results are not included in this 14 day average.

Press ▲ to view the 7 day total.

7 day total: Your meter will display the total number of results taken during the last seven days.

High and low results: At the top of the display you will see the number of high results (above 180 mg/dL) and low results (below 72 mg/dL) during that seven day period.

Press ▼ to review previous results.

Previous results: Results will be shown starting with the most recent. Each result will show the date and time the test was taken, as well as any symbols you chose to mark the test result.

You can press ▲ or ▼ to scroll forward or backward through the results. You can press and release the button to view stored results one at a time or you can hold it to move through results continuously.

When End appears on the display, you have viewed all of the results in the memory.

The meter will hold 480 results in the memory. When the maximum is reached, the oldest test result will be removed as a new test is completed and saved to the memory.

Press M to turn the meter off, or it will automatically turn off after three minutes.
## Error Codes and Symbols:

If you do not resolve the problem, contact Bayer Diabetes Care Customer Service at 1-800-348-8100.

<table>
<thead>
<tr>
<th>WHAT YOU SEE</th>
<th>WHAT IT MEANS</th>
<th>WHAT YOU SHOULD DO</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Battery Low" /></td>
<td>Low batteries.</td>
<td>Replace the batteries as soon as possible to avoid the risk of a test result not being stored in your meter. Call Bayer Diabetes Care Customer Service at 1-800-348-8100 for free replacement batteries.</td>
</tr>
<tr>
<td><img src="image" alt="Battery Dead" /></td>
<td>Dead batteries.</td>
<td>Replace the batteries immediately to avoid the risk of a test result not being stored in your meter.</td>
</tr>
<tr>
<td><img src="image" alt="Temperature Out of Range" /></td>
<td>Temperature out of range.</td>
<td>Move to an area that is within the operating range for the meter (41°F – 113°F). Let the meter adjust to this temperature for twenty minutes before testing.</td>
</tr>
<tr>
<td><img src="image" alt="Wrong Test Strip" /></td>
<td>The test strip has not filled with enough blood for an accurate test.</td>
<td>Remove the test strip and retest using a new test strip.</td>
</tr>
<tr>
<td><img src="image" alt="Wrong Test Strip" /></td>
<td>The meter is detecting a used test strip or blood was applied before the meter was ready.</td>
<td>Remove the test strip and retest using a new test strip. Wait until you see the flashing blood drop on the display before adding the blood sample.</td>
</tr>
<tr>
<td><img src="image" alt="Wrong Test Strip" /></td>
<td>Test strip is not inserted correctly.</td>
<td>Remove and reinsert the test strip properly (see page 11).</td>
</tr>
<tr>
<td><img src="image" alt="Wrong Test Strip" /></td>
<td>Potential software or hardware issue.</td>
<td>Remove the test strip and retest using a new test strip. If you continue to have problems, contact Bayer Diabetes Care Customer Service.</td>
</tr>
<tr>
<td><img src="image" alt="Wrong Test Strip" /></td>
<td>Wrong test strip.</td>
<td>Remove the test strip and retest using a CONTOUR test strip.</td>
</tr>
</tbody>
</table>

### Error Codes and Symbols:

- **E1** Invalid date or time.
- **E2** Abnormal result.
- **E3** The meter has detected an error and cannot send the result to your Medtronic device.
- **E4** The meter has detected a used test strip or blood was applied before the meter was ready.
- **E5** The test strip has not filled with enough blood for an accurate test.
- **E6** Test result is above 600 mg/dL. **WARNING:** Glucose levels above 250 mg/dL may indicate a potentially serious medical condition.
- **E7** Test result is below 10 mg/dL. **WARNING:** Glucose levels below 50 mg/dL may indicate a potentially serious medical condition.
- **E8** The meter has detected an error and cannot send the result to your Medtronic device.
- **E9** Test result is above 600 mg/dL. **WARNING:** Glucose levels above 250 mg/dL may indicate a potentially serious medical condition.
- **E10** Test result is below 10 mg/dL. **WARNING:** Glucose levels below 50 mg/dL may indicate a potentially serious medical condition.
- **E11** Test result is above 600 mg/dL. **WARNING:** Glucose levels above 250 mg/dL may indicate a potentially serious medical condition.
- **E12** Test result is below 10 mg/dL. **WARNING:** Glucose levels below 50 mg/dL may indicate a potentially serious medical condition.
- **E13** The meter is detecting a used test strip or blood was applied before the meter was ready.

### Diabetes Care Customer Service at 1-800-348-8100:

- **E10** Invalid date or time. See Setup instructions (page 27) to set the date and time on your meter. If you continue to have problems, contact Bayer Diabetes Care Customer Service: 1-800-348-8100.
- **E11** Abnormal result. Remove the test strip and retest using a new test strip. Carefully follow testing instructions in your User Guide. If you continue to have problems, contact Bayer Diabetes Care Customer Service: 1-800-348-8100.
- **E15** The meter has detected an error and cannot send the result to your Medtronic device. Turn the Send option off (see page 26), then retest using a new test strip. (You can then manually enter your result into your Medtronic device.) Then contact Bayer Diabetes Care Customer Service. (You can still use your meter for testing, but results cannot be sent to your Medtronic device.)
- **HI** Test result is above 600 mg/dL. • Wash your hands and the test site. Repeat the test using a new test strip. • If your result is still "HI," contact your physician or healthcare professional immediately.
- **LO** Test result is below 10 mg/dL. • Repeat the test using a new test strip. • If your result is still "LO," contact your physician or healthcare professional immediately.

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Symptoms of High or Low Blood Glucose

You can better understand your test results by being aware of the symptoms of high or low blood glucose; this will also help you decide what to do if your results seem unusual.

Some of the most common symptoms are:

**High blood glucose (Hyperglycemia):**
- frequent urination
- excessive thirst
- blurred vision
- increased fatigue
- extreme hunger
- irritability

**Low blood glucose (Hypoglycemia):**
- shakiness
- sweating
- fast heartbeat
- blurred vision
- confusion
- passing out
- seizure

**Ketones (Ketoacidosis):**
- shortness of breath
- nausea and vomiting
- very dry mouth

*For additional information and a complete list of symptoms, contact your healthcare professional or refer to the website for the American Diabetes Association: www.diabetes.org
Changing the Batteries:

**WARNING:** When a low battery warning displays on the meter, replace the battery as soon as possible to avoid a test result not being stored in the meter memory.

Batteries should be replaced when the meter continually displays \( \frac{1}{2} \) or the meter briefly shows \( \frac{1}{2} \) and then turns off (See Error Codes and Symbols, page 38).

Turn off your meter before changing your batteries.

Press firmly on the battery cover and slide in the direction of the arrow.

**NOTE:** If you put the new batteries in the meter within 5 minutes of taking the old ones out, all your settings and results will be saved. If you take more than 5 minutes, you will need to reset the date and time although your other settings and results will be saved.

Remove the old batteries by pressing the top of the battery which will raise the bottom of the battery up.

Place new batteries under the prongs and into the battery compartment with the “+” side up. (Battery part numbers are DL2032 or CR2032.)

Slide the battery cover back into place, lining up with the open slots, and close firmly.

**WARNING:** Keep batteries away from children. Lithium batteries are poisonous. If swallowed, immediately contact your physician or poison control center. Discard batteries according to your local environmental regulations.

**Bayer offers the Free Batteries for Life program.**
When your batteries are low, please call 1-800-348-8100 for your free batteries.

Caring for the System:

- When a low battery warning displays on the meter, replace the battery as soon as possible to avoid a test result not being stored in the meter memory.
- Store the meter in the carrying case provided whenever possible.
- Wash your hands and dry thoroughly before handling to keep the meter and test strips free of oils and other contaminants.
- Handle the meter carefully to avoid damaging the electronics or causing other malfunctions.
- Avoid exposing the meter and test strips to excessive humidity, heat, cold, dust, or dirt.

Please see page 18 for details on cleaning and disinfecting your meter.
For complete instructions on disinfecting and cleaning your meter and lancing device, please see page 18.

WARNING: Do not allow solution to run down into the test strip port or around the buttons. Doing so may cause a malfunction.

Transferring Results to a Computer:

You can easily transfer test results from the CONTOUR LINK meter to a computer that includes the Bayer’s GLUCOFACTS® DELUXE Diabetes Management Software or Medtronic CareLink® Therapy Management Software. The results can then be summarized into easy-to-read reports that you can share with your physician. A Bayer data cable is required to use this feature.

IMPORTANT: The CONTOUR LINK meter has not been tested or certified by Bayer for use with any software other than Bayer’s GLUCOFACTS® DELUXE diabetes management software or CareLink Software. Bayer is not responsible for any erroneous results from the use of other software.

For more information, call our Bayer Diabetes Care Customer Service (1-800-348-8100), or visit our website at www.bayerdiabetes.com/us.

For CareLink information, visit www.medtronicdiabetes.com.

NOTE: If the cable is connected to the data port (even if the cable is not connected to a PC), results will NOT be sent to the Medtronic device.

Technical Information:

Accuracy

Diabetes experts have suggested that glucose meters should agree within 15 mg/dL of a laboratory method when the glucose concentration is lower than 75 mg/dL, and within 20% of a laboratory method when the glucose concentration is 75 mg/dL or higher. The chart below displays how often the CONTOUR LINK meter achieves this goal. The chart is based on a study done on 100 patients to see how well the CONTOUR LINK compared to laboratory results.

<table>
<thead>
<tr>
<th>Glucose Concentration</th>
<th>Meter Results Matched Within 15 mg/dL (%)</th>
<th>Laboratory Method Matched Within 20% (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 75 mg/dL</td>
<td>98.7% (75/76)</td>
<td>98.5% (319/324)</td>
</tr>
</tbody>
</table>

Note: When meter results are compared to the laboratory results, results below 75 mg/dL are compared in mg/dL.

Precision

A study was conducted with the CONTOUR LINK blood glucose monitoring system with five heparinized whole blood specimens with glucose levels from 44 to 332 mg/dL. Multiple replicates (n=100) were tested using multiple CONTOUR LINK blood glucose meters and one lot of CONTOUR blood glucose test strips. The following precision results were obtained:

<table>
<thead>
<tr>
<th>Plasma/Serum</th>
<th>Mean (mg/dL)</th>
<th>SD (mg/dL)</th>
<th>Coefficient of Variation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>41.8 mg/dL</td>
<td>1.26 mg/dL</td>
<td>3.02%</td>
<td></td>
</tr>
<tr>
<td>78.1 mg/dL</td>
<td>1.99 mg/dL</td>
<td>2.55%</td>
<td></td>
</tr>
<tr>
<td>125.7 mg/dL</td>
<td>2.67 mg/dL</td>
<td>2.12%</td>
<td></td>
</tr>
<tr>
<td>198.0 mg/dL</td>
<td>4.32 mg/dL</td>
<td>2.18%</td>
<td></td>
</tr>
<tr>
<td>312.3 mg/dL</td>
<td>5.01 mg/dL</td>
<td>1.60%</td>
<td></td>
</tr>
</tbody>
</table>
Specifications:

**Test Sample:** Whole blood

**Test Result:** Referenced to plasma/serum glucose

**Sample Volume:** 0.6 µL

**Measuring Range:** 20–600 mg/dL

**Measuring Time:** 5 seconds

**Memory Feature:** Stores most recent 480 test results

**Radio Frequency:** 916.5 MHz

**Battery Type:** Two 3-volt lithium batteries (DL2032 or CR2032)

**Battery Life:**
- **Send option off:** About 1000 tests (1 yr. average use).
- **Send option on:** About 244 tests (2 months at 4 transmitted results per day).

Operating Temperature Range: 41°F–113°F

**Humidity:** 10–93% RH

**Dimensions:** 77 mm (H) x 57 mm (W) x 23 mm (T)

**Weight:** 1.85 ounces

**Alarm:** “Beeps” whenever a test strip is inserted into or removed from the meter, when the test strip is filled with blood or control solution, and when a test result appears in the display. Two beeps will sound for an error. Twenty beeps will sound when a programmed alarm goes off.
Warranty:

Manufacturer’s Warranty: Bayer HealthCare warrants to the original purchaser that this instrument will be free from defects in materials and workmanship for 5 years from the date of original purchase (except as noted below). During the stated 5-year period, Bayer HealthCare shall, at no charge, replace a unit found to be defective with an equivalent or current version of the owner’s model.

Limitations of Warranty: This warranty is subject to the following exceptions and limitations:

1. A 90-day warranty only will be extended for consumable parts and/or accessories.

2. This warranty is limited to replacement due to defects in parts or workmanship. Bayer HealthCare shall not be required to replace any units which malfunction or are damaged due to abuse, accidents, alteration, misuse, neglect, maintenance by someone other than Bayer HealthCare, or failure to operate the instrument in accordance with instructions. Further, Bayer HealthCare assumes no liability for malfunction or damage to Bayer HealthCare instruments caused by the use of reagents other than reagents (i.e., CONTOUR® test strips) manufactured or recommended by Bayer HealthCare.

3. Bayer HealthCare reserves the right to make changes in design of this instrument without obligation to incorporate such changes into previously manufactured instruments.

4. Bayer HealthCare has no knowledge of the performance of the CONTOUR LINK blood glucose meter when used with any test strips other than CONTOUR test strips, and therefore makes no warranty of the performance of the CONTOUR LINK meter when used with any test strips other than CONTOUR test strips or when the CONTOUR test strip is altered or modified in any manner.

5. Bayer HealthCare makes no warranty of the performance of the CONTOUR® LINK meter or test results when used with any control solution other than CONTOUR control solution.

BAYER HEALTHCARE MAKES NO OTHER EXPRESS WARRANTY FOR THIS PRODUCT. THE OPTION OF REPLACEMENT, DESCRIBED ABOVE, IS BAYER HEALTHCARE’S ONLY OBLIGATION UNDER THIS WARRANTY. IN NO EVENT SHALL BAYER BE LIABLE FOR INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF BAYER HEALTHCARE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

For warranty service: Purchaser must contact the Customer Service Department of Bayer Diabetes Care, by calling toll free 1-800-348-8100, for assistance and/or instructions for obtaining service of this instrument.
Service Information:

If you have a problem and none of the problem-solving steps in the User Guide help, call a Bayer HealthCare Representative. We have trained specialists to help you.

Important:

- Speak to a Bayer HealthCare Representative before returning your meter for any reason. He/she will give you the information needed to get your problem handled correctly and efficiently.
- Have your CONTOUR LINK blood glucose meter and CONTOUR test strips available when you phone. It would also be helpful to have a bottle of CONTOUR control solution nearby.

Supplies:

When calling or writing for supplies, be sure to include the number with the name of the replacement part or accessory item.

Replacement Parts

Part
Number*  Item

40030030  3-volt Lithium Battery (DL2032 or CR2032) — 2
(Free Batteries for Life program. Call 1-800-348-8100.)

CTS-103  CONTOUR® LINK User Guide

40453291  Bayer's USB Data Cable

* Part numbers are subject to change without notice

REFERENCES


