USING THE MINIMED® 670G SYSTEM

Instructions for the Experienced MiniMed® 630G System User

INITIAL VERSION FOR CUSTOMER TRAINING PHASE
Checklist for Upgrading
Here are some important things you will need to accomplish on your path to Auto Mode* in the MiniMed 670G system.

✔ Understand the differences between the MiniMed 630G and MiniMed 670G systems .........................1

✔ Retrieve your MiniMed 630G insulin pump settings................................................................................7

✔ Programming your MiniMed 670G pump................................................................................................9

✔ MiniMed 670G pump infusion set & sensor insertion...........................................................................15

✔ Before beginning Auto Mode ............................................................................................................17

*WARNING: may not be safe for patients under 7 or requiring less than 8 units of insulin per day.
Let’s Get Started!
Welcome to the next advancement in diabetes care. Your new MiniMed 670G system includes SmartGuard® technology, which automatically adjusts insulin delivery based on your sensor glucose values. It features Auto Mode, which will be discussed later.

MINIMED 670G PUMP BUTTONS

- **Graph**: Opens the CGM graph from the home screen
- **Select button**: Press to open Main Menu
- **This symbol**: Shows that the graph button also puts pump into sleep mode. Press and hold ~2 seconds
Your MiniMed 670G system can be used in two different ways—Manual Mode and Auto Mode.

**Manual Mode**
Using your pump in a traditional way, like your MiniMed 630G pump.
- Basal rates are pre-programmed.
- Bolusing can be done with the Bolus Wizard® or with Manual Boluses.
- CGM is not required for insulin delivery, but is necessary for insulin suspend features.

**Auto Mode**
Delivers basal insulin automatically based on your sensor glucose readings.
- Basal is automatically adjusted every 5 minutes.
- Bolusing for carbs before meals is necessary, but Auto Mode auto adjusts the basal after the bolus is given.
- CGM is required.

**HOME SCREEN IN MANUAL MODE**

**HOME SCREEN IN AUTO MODE**

**CGM GRAPH IN MANUAL MODE**

**CGM GRAPH IN AUTO MODE**

**NEW LOW MANAGEMENT SUSPEND ICON:**
- Suspend before low
- Suspend on low

**Auto Basal Deliveries**

**INITIAL VERSION FOR CUSTOMER TRAINING PHASE**
MiniMed 670G Pump Menus

Here are the changes you will find in the menus:

**MENU**

- **Basal** and **Bolus** options are now on the Menu
- You will now select **Status** to see your status screens

**OPTIONS**

- High Setup and Low Setup are now entered in **SmartGuard**
  - **NEW: Auto Mode Setup**
- Basal and Bolus Setup now in **Delivery Settings** (formerly Insulin Settings)
- New location for **Reservoir & Tubing**

**UTILITIES**

- The sensor feature is turned On in **Sensor Settings**
New CGM features in Manual Mode

1. Expanded Low Limit range
   - Your Low limit can be set as low as 50mg/dL and up to 90mg/dL.
   - This is available in both Manual Mode and Auto Mode.

2. Fixed Low Alert
   - Your system has an alert at 50mg/dL. This alert cannot be changed, but the alert can be cleared.
   - This occurs in both Manual Mode & Auto Mode.

3. Suspend before low event
   To help keep sensor glucose (SG) from reaching your low limit, insulin delivery will be stopped if SG is:
   - At or within 70 mg/dL above the low limit.
   - Predicted to be approaching the low limit in 30 minutes.
   If you want your pump to suspend without alarming, turn Alert before low off.

4. Automatic basal resume based on sensor glucose (SG) value
   During Suspend before low or Suspend on low, basal insulin will automatically resume if:
   - Glucose is above the low limit and trending upward.
   - Insulin has been suspended for at least 30 minutes.
   The basal can be manually resumed at any time, and will resume after a maximum of 2 hours.
Calibrations

The CGM calibration schedule is similar to your MiniMed 630G system. Calibrate 3-4 times a day or when you receive a Calibrate now.

After inserting a new sensor, calibrate:

- After Warm up.
  - Warm up can vary from 40 minutes up to 2 hours.
  - Your pump will alert you with a Calibrate now when it’s ready.
- Again within 6 hours (first day only).
- Again every 12 hours (at a minimum).
- When the system detects that a calibration is needed for optimal performance.

**CALIBRATION TIPS**

- Spread your calibrations throughout the day, such as before meals, and before bedtime
- Calibrate before bedtime to minimize getting Calibrate now alerts while you sleep
- Skip a calibration if you see ↑↑,↓↓ OR ↑↑↑,↓↓↓ on your pump screen
- Always calibrate immediately after testing your BG.
If you don’t have access to CareLink® software, move to the next page to record your pump’s settings.

1. Upload your MiniMed 630G pump into CareLink at [www.medtronicdiabetes.com/CareLink](http://www.medtronicdiabetes.com/CareLink)

2. Go to Reports and search for Device Settings Snapshot. Print or save your settings.

3. If you have any difficulty using CareLink Personal, call the Medtronic 24 Hour HelpLine at [1-818-576-5400](tel:1-818-576-5400)

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**DEVICE SETTINGS SNAPSHOT**
**INSULIN SETTINGS**

*BOLUS WIZARD SETUP*
Menu > Insulin Settings > Bolus Wizard Setup

Bolus Wizard: □ On □ Off

Carb Ratio:

<table>
<thead>
<tr>
<th>Time</th>
<th>Ratio 1</th>
<th>g/U</th>
<th>Ratio 2</th>
<th>g/U</th>
<th>Ratio 3</th>
<th>g/U</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Insulin Sensitivity Factor:

<table>
<thead>
<tr>
<th>Time</th>
<th>Sensitivity 1</th>
<th>mg/dL per U</th>
<th>Sensitivity 2</th>
<th>mg/dL per U</th>
<th>Sensitivity 3</th>
<th>mg/dL per U</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BG Target:

<table>
<thead>
<tr>
<th>Time</th>
<th>Target 1</th>
<th>mg/dL</th>
<th>Target 2</th>
<th>mg/dL</th>
<th>Target 3</th>
<th>mg/dL</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Active Insulin Time: __________ hr

*BASEAL PATTERN SETUP*
Menu > Insulin Settings > Basal Pattern Setup

Basal Pattern Name: __________

<table>
<thead>
<tr>
<th>Time</th>
<th>Basal Rate 1</th>
<th>U/hr</th>
<th>Basal Rate 2</th>
<th>U/hr</th>
<th>Basal Rate 3</th>
<th>U/hr</th>
<th>Basal Rate 4</th>
<th>U/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PRESET TEMP SETUP**
Menu > Insulin Settings > Preset Temp Setup

Preset Temp Name: __________

Type _____ Percent _____ % Duration _____ hr

**SENSOR SETTINGS: LOW SETTINGS**
Menu > Sensor Settings > Low Settings

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Low Limit</th>
<th>Alert before Low</th>
<th>Suspend on Low</th>
<th>Alert on Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 A -</td>
<td>__________ mg/dL</td>
<td>□ On</td>
<td>□ On</td>
<td>□ On</td>
</tr>
<tr>
<td>__________</td>
<td>__________ mg/dL</td>
<td>□ On</td>
<td>□ On</td>
<td>□ On</td>
</tr>
<tr>
<td>__________</td>
<td>__________ mg/dL</td>
<td>□ On</td>
<td>□ On</td>
<td>□ On</td>
</tr>
</tbody>
</table>

Low Snooze: __________ minutes

**SENSOR SETTINGS: HIGH SETTINGS**
Menu > Sensor Settings > High Settings

<table>
<thead>
<tr>
<th>Time Period</th>
<th>High Limit</th>
<th>Alert before High</th>
<th>Alert on High</th>
<th>Rise Alert</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 A -</td>
<td>__________ mg/dL</td>
<td>□ On__________ min</td>
<td>□ On</td>
<td>□ On</td>
</tr>
<tr>
<td>__________</td>
<td>__________ mg/dL</td>
<td>□ On__________ min</td>
<td>□ On</td>
<td>□ On</td>
</tr>
<tr>
<td>__________</td>
<td>__________ mg/dL</td>
<td>□ On__________ min</td>
<td>□ On</td>
<td>□ On</td>
</tr>
</tbody>
</table>

High Snooze: __________ minutes

**INSULIN SETTINGS (continued)**

DUAL/SQUARE WAVE:
Dual: □ On □ Off
Square: □ On □ Off

PRESET BOLUS SETUP
Menu > Insulin Settings > Preset Bolus Setup

Preset Bolus Name: __________

Bolus: _______ U Type: __________
% _____ Now _____ Square Duration _____ hr

**MAX BASAL/BOLUS:**
Max Basal: _______ U/hr Max Bolus: _______ U

EASY BOLUS: □ On □ Off Step Size _______ U

AUTO SUSPEND: □ On _______ hr □ Off

BOLUS SPEED: □ Standard □ Quick

**REMINDERS**
Menu > Reminders

PERSONAL:
Name: __________ Time: _______ AM / PM

BOLUS BG CHECK: □ On □ Off

MISSED MEAL BOLUS:
Meal 1: _______ AM / PM - _______ AM / PM

LOW RESERVOIR:
□ Units: _______ U □ Time: _______ hr

SET CHANGE:
□ On _______ days □ Off

**UTILITIES**
Menu > Utilities

DISPLAY OPTIONS:
Brightness _____ □ Auto Backlight _____ sec / min

REMOTE BOLUS: □ On □ Off

**CARB UNIT:** □ Grams □ Exchanges

**CARB UNIT:** Minimed 670G system uses Grams only

*The most important settings for use with the MiniMed 670G system.
Getting Started with Your MiniMed 670G System

1. Charge your new transmitter.
2. Insert a Battery.
3. Complete the pump Startup Wizard.

Begin programming your MiniMed 670G pump.

Max Basal

If you need to program a basal rate that is more than 2 U/hr, or for safety, your healthcare professional wants to limit the amount of basal that can be programmed, your Max Basal setting may need to be changed.

1. From the Home screen, press .
2. Select Basal or Options.
3. Select Delivery Settings.
4. Select Max Basal/Bolus.
5. Select Max Basal.

6. Read the message. Press ▶ and select Continue.
7. Press .
8. Press ▲ or ▼ to enter number of U/hr and press .
9. Select Save.

Add a Basal Pattern

1. From the Home screen, press .
2. Select Basal.
3. Select Delivery Settings.
4. Select Basal Pattern Setup.
5. Select Basal 1.
6. Select Options.
7. Select Edit.
8. Press ▲ to enter the End time. If you have only one basal rate, press .
   If you have more than one basal rate, press ▲ or ▼ to enter the time the basal rate ends and press .
9. Press ▲ or ▼ to enter U/hr of your basal rate and press .
   Continue entering your End times and U/hr until all basal rates are entered.
10. Select Done.
**Bolus Wizard Setup**

1. From the Home screen, press \( \text{O} \).
2. Select Options.
3. Select Delivery Settings.
4. Select Bolus Estimate Setup.
5. Select Bolus Wizard to turn on.
6. Press \( \text{v} \) to continue reading text.
7. Select Next.
8. Review the description of Carb Ratio and select Next.

9. Press \( \text{O} \) on the time segment.
10. If you have only one Carb Ratio, press \( \text{O} \).
    If you have more than one Carb Ratio, press \( \text{^} \) or \( \text{v} \) to enter the time that your Carb Ratio ends and the second begins and press \( \text{O} \).
11. Press \( \text{^} \) or \( \text{v} \) to enter the \( \text{g/U} \) of your Carb Ratio and press \( \text{O} \).
    If you have more than one Carb Ratio, continue by entering your time segments and Carb Ratios until all are entered.

12. Select Next.
13. Review the description of Sensitivity Factor and select Next.
14. Press \( \text{O} \) on the time segment.
15. If you have only one Sensitivity Factor, press \( \text{O} \).
    If you have more than one Sensitivity Factor, press \( \text{^} \) or \( \text{v} \) to enter the time that your Sensitivity Factor ends and the second begins and press \( \text{O} \).
16. Press \( \text{^} \) or \( \text{v} \) to enter the \( \text{mg/dL per U} \) of your Sensitivity Factor and press \( \text{O} \).
    If you have more than one Sensitivity Factor, continue by entering your time segments and Sensitivity Factors until all are entered.
17. Select Next.
18. Review the description of BG Target and select Next.
19. Press \( \text{O} \) on the time segment.
20. If you have only one BG Target Range, press \( \text{O} \).
    If you have more than one BG Target Range, press \( \text{^} \) or \( \text{v} \) to enter the time that your BG Target Range ends and the second begins and press \( \text{O} \). Press \( \text{^} \) or \( \text{v} \) to enter the Lo target and press \( \text{O} \).
21. Press \( \text{^} \) or \( \text{v} \) to enter the Hi target and press \( \text{O} \).
    If you have more than one BG Target Range, continue by entering your time segments and Lo and Hi targets until all are entered.
22. Select Next.
23. Review the description of Active Insulin Time and select Next.
24. Select Duration.
25. Press \( \text{^} \) or \( \text{v} \) to enter the Duration of your Active Insulin Time and press \( \text{O} \).
26. Select Save.

The Bolus Wizard setup is now complete.
Max Bolus

If you need to deliver boluses that are more than 10 units, or for safety, your healthcare professional wants to limit the amount of bolus that can be given at one time, your Max Bolus setting may need to be changed.

1. From the Home screen, press 0.
2. Select Options.
3. Select Delivery Settings.
4. Select Max Basal/Bolus.
5. Select Max Bolus.
6. Read the message. Press > and select Continue.
7. Press 0.
8. Press ^ or v to enter number of units and press 0.
9. Select Save.

Turn the Sensor Feature On

1. Press 0.
2. Select Options.
3. Select Utilities.
5. Select Sensor to turn the feature On.

Now go back to the Home screen, and the next pages will help you setup your CGM settings.

NOTE: Program any additional insulin setting features you want to transfer over to your MiniMed 670G pump.
**High Setup**
1. Press \( \text{O} \).
2. Select Options.
3. Select SmartGuard.
4. Select High Setup.
5. Press \( \text{O} \). If you are setting only one time segment, press \( \text{O} \).
   
   If you are setting multiple segments with different high limits, press \( \uparrow \) to set the first End time and press \( \text{O} \).
6. Press \( \uparrow \) or \( \downarrow \) to set Hi limit and press \( \text{O} \).
7. Press \( \text{O} \) to continue onto the next screen.
8. Select each feature you wish to turn on.
9. Once settings are selected, select Next.
10. Select Done.

   If setting multiple time segments, select the **End time**, **Hi**, and features you wish to turn on. Then select Done.
11. Verify settings are correct, and select Save.

**Low Setup**
1. Press \( \text{O} \).
2. Select Options.
3. Select SmartGuard.
4. Select Low Setup.
5. Press \( \text{O} \). If you are setting only one time segment, press \( \text{O} \).
   
   If you are setting multiple segments with different low limits, press \( \uparrow \) to set the first End time and press \( \text{O} \).
6. Press \( \uparrow \) or \( \downarrow \) to set Lo limit and press \( \text{O} \).
7. Press \( \text{O} \) to continue onto the next screen.
8. Select each feature you wish to turn on.
9. Once settings are selected, select Next.
10. Select Done.

   If setting multiple time segments, select the **End time**, **Lo**, and features you wish to turn on. Then select Done.
11. Verify settings are correct, and select Save.
Delete Old Pump and Connect New Pump to Your CONTOUR® NEXT LINK 2.4 Meter*

1. Hold the Menu button until the meter turns on.
2. Scroll to Setup and click on OK.
3. Click OK.
4. Click Connection.
5. Click Delete.
6. Click Yes to delete pump.
7. Wait...
8. Click OK.
9. Click OK.
10. Click Yes.
11. Click OK.
12. Press Auto Connect.

Put the meter down and pick up your pump.
13. Press ◀.
14. Go to Options.
15. Go to Utilities.
16. Go to Device Options.
17. Select Connect Device.
18. Select Auto Connect on your pump.
19. Press ▼.
20. Press ▶.
21. Select Continue

Place the meter and pump next to each other.
22. Select Search on your pump and meter. The search may take up to 2 minutes.
23. Check to see that the Device SN (serial number) on the pump screen matches the Device SN on the meter.
24. If they match, select Confirm on the pump.
25. Check to see that the SN on the back of the pump matches the SN now on the meter screen.
26. Follow the remaining steps on the meter to choose to Always send result to pump, to select the Date Format, set AutoLog to Off, and accept the Target Range.

Setup is now complete.

*Use your meter that you received with your MiniMed 630G system.
To Wirelessly Connect Your Pump and Transmitter

1. Make sure the transmitter is on your charger.
2. Press \( \bigcirc \).
3. Select Options.
4. Select Utilities.
5. Select Device Options.

7. Select Auto Connect.

8. Press \( \downarrow \).
9. Select Continue.

10. Remove the transmitter from the charger.

11. When the green light flashes on the transmitter, immediately hit Search on the pump.
   - The search can take several minutes...
   - If the green light on the transmitter does not flash, put the transmitter back on the charger and try to Search again.

12. When the device is found, confirm that the serial number (SN) shown on the pump is the serial number on the back of your transmitter.

   If you receive the No devices found message, place the transmitter back onto the charger. Then remove the transmitter from the charger and immediately select Retry on the pump.

13. If SN matches, select Confirm.

Connection is now complete. The transmitter serial number will be displayed on the pump screen.
Changing the Reservoir and Infusion Set

The MiniMed 670G pump uses the same infusion sets and reservoirs as your MiniMed 630G pumps, and changing your reservoir and infusion set is still the same as your MiniMed 630G pump.

1. From the Home screen, press Options.
2. Select Options.
3. Select Reservoir & Tubing.
4. Select New Reservoir.
5. Continue with the remaining steps for filling your reservoir and inserting a new infusion set.

Inserting Your Sensor

The sensor insertion process for MiniMed 670G pump is very similar to the MiniMed 630G pump, but with a few new changes. See your CGM Getting Started Guide page 20 for the full steps.

- New sensor and transmitter with enhanced accuracy and performance!
- New tape with a different shape!

1. Insert your sensor.

2. Tape your sensor.

3. Connect transmitter.

4. Apply second piece of tape.
Starting the Sensor

Start New Sensor appears automatically when sensor is ready.

1. Once Sensor connected message appears, press \( \checkmark \). This typically takes less than a minute, but may take up to 10 minutes.

2. Select Start New Sensor.

3. The Sensor warm-up started message will appear. Press \( \checkmark \) and then \( \bigcirc \) to clear.

4. Warm up... will appear on the Home screen until sensor is ready for the first calibration.

Warm up can last between 40 minutes and up to 2 hours.

Calibrating the Sensor

1. Within two hours after starting a new sensor, or any other time a calibration is necessary, you will receive a Calibrate now.

If you plan to snooze or test BG right away, select Snooze.

2. Once you select Snooze, Calibration required will appear on the Home screen until you enter a BG to calibrate.

You will not receive sensor glucose readings or sensor alerts and alarms until a calibration BG is entered.

3. Select Yes to confirm the BG meter reading.

If you do not believe the meter result is accurate, do not confirm now. Select No, wash your hands, and re-test your BG.

4. Select Calibrate Sensor to calibrate using the BG value.

If you plan to give a bolus using Bolus Wizard®, select Bolus. Select Done if you wish to do neither.
When to start on Auto Mode
You and your healthcare professional will decide when the time is right to start Auto Mode.

Auto Mode will represent a shift in the way you manage your diabetes. One of the biggest benefits will be having fewer clinical decisions to make, as the system will adjust insulin delivery every 5 minutes to help keep more of your glucoses in range. However, you will still have important responsibilities.

Auto Mode Ready? You should:
- Enter carbs into the pump before you eat.
- Check BGs and calibrate 3-4 times a day.
- Respond promptly to alerts.
- Prepare for more tasks (BG checks and calibrations, alerts, etc.), with less clinical burden.
- Upload to CareLink so that you and your health care professional can evaluate your settings.

CareLink Software — upload your MiniMed 670G pump prior to Auto Mode start.
- This will be used to set your initial settings and allows your health care provider to identify any issues that need to be corrected.
- www.medtronicdiabetes.com/CareLink

Time to schedule your Auto Mode training!

WARNING Do not turn on Auto Mode before your training. If you do, Auto Mode could activate in the night before you are ready. Auto Mode requires a 48+ hour warm-up period before activating.
MAIN MENU

AUTO MODE

BOLUS
ENTER BG
TEMP TARGET
AUDIO OPTIONS
STATUS
SUSPEND DELIVERY
OPTIONS

BOLUS
BG
Carbs

ENTER BG
BG Entry

TEMP TARGET
Duration
Cancel Temp Target

AUDIO OPTIONS
Alert Silence Options
▶ High Alerts Only
▶ High & Low Alerts
▶ All Sensor Alerts
▶ Duration
Audio (On/Off)
Vibrate (On/Off)
Volume (-/+)

STATUS
Auto Mode Readiness
Notifications
Quick Status
Pump
Sensor
Settings Review

SUSPEND DELIVERY

INITIAL VERSION FOR CUSTOMER TRAINING PHASE