

Medtronic

MDT-141

MiniMed™ 780G System

Your quick start guide

A guide to getting started with your MiniMed™ 780G pump, CGM and SmartGuard™ feature. Updated with Extended™ infusion set.



Components sold separately.

 minimed

A man with a beard, wearing a light blue and tan baseball cap and a grey cardigan over a white t-shirt, is looking down at a smartphone in his right hand. He is holding a red football with "SHER" and a target logo in his left arm. The background shows a blue body of water and a distant shoreline under a clear sky. The image is framed by a blue wave-like shape at the top and a dark blue wave-like shape at the bottom.

Welcome to your new MiniMed™ 780G system.

Thank you for choosing the MiniMed™ 780G system. We are thrilled you have chosen Medtronic and are focused on supporting you through this training and beyond.

Our goal is for your training experience to be as seamless as possible. This book will guide you through the steps needed during your training and is a great resource for those moments post start when you are a little unsure of what was discussed. It happens, you're human!

Please note that we use the term QRG throughout this guide. This stands for Quick Reference Guide. We have QR codes to access these at the end of this booklet.

Enjoy your new MiniMed™ 780G and congratulations on taking this step towards achieving your goals with greater flexibility and less effort.*

*vs previous therapy.

Carlson A, et al. Safety and Glycemic Outcomes during the MiniMed Advanced Hybrid Closed Loop System Pivotal Trial in Adolescents and Adults with Type 1 Diabetes. Diabetes Tech and Therapeutics, Vol 24, Number 3, 2022.

Your training day!

Starting your MiniMed™ 780G

Medtronic's most advanced insulin pump system which works in 4 different modes:

Pump alone, Pump with CGM in Manual Mode and Pump in SmartGuard™ feature which also includes Baseline Delivery.

The MiniMed™ 780G is a self-adjusting basal pump system with auto correction dosing using SmartGuard™ technology.

First, let's have a look at the buttons on the pump

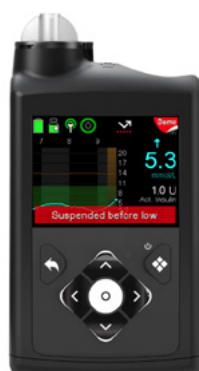


Getting to know your pump in each mode of delivery

Manual Mode



Pump only



Pump + CGM

Within Manual Mode, you are also able to select Suspend Before Low; or Suspend On Low at any time if your needs change

SmartGuard™ feature



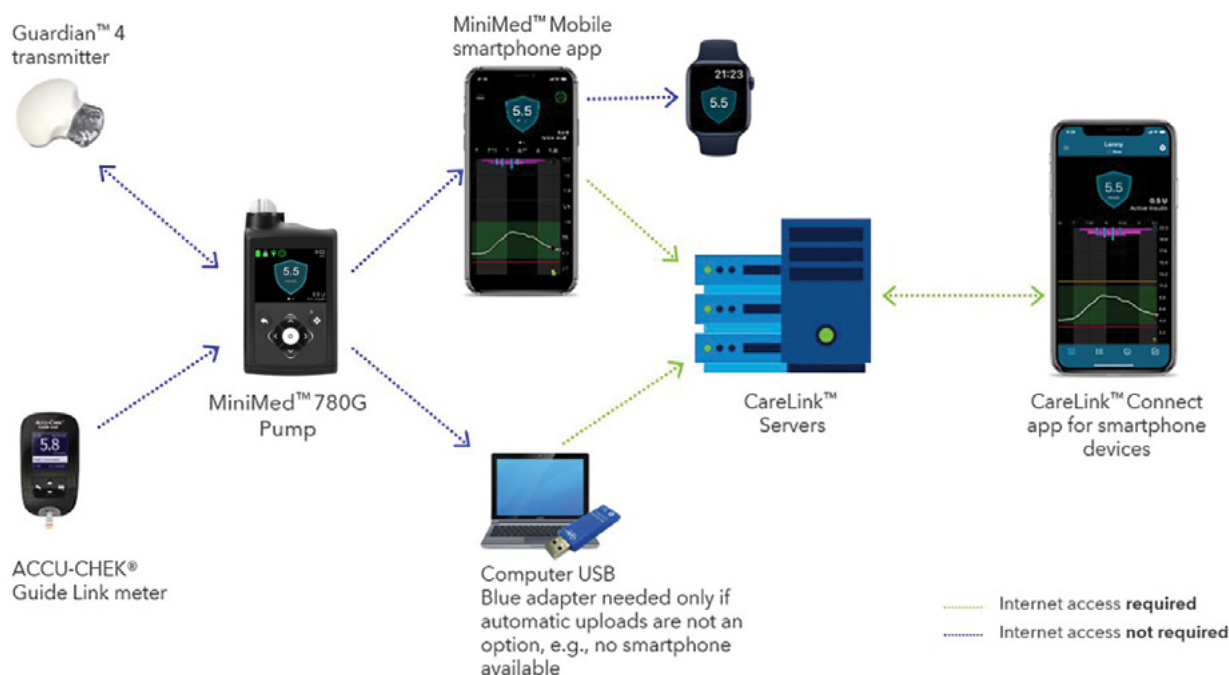
SmartGuard™ feature

Within SmartGuard™ feature, you have the option of turning Auto Corrections off at any target setting if your needs change



Baseline insulin delivery

How your pump components work together via Bluetooth™



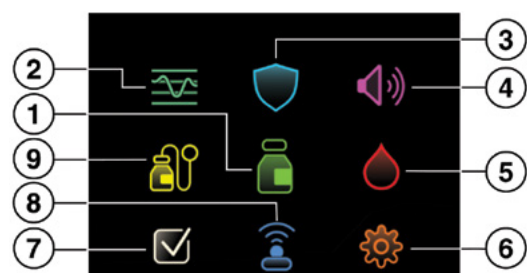
Getting to know your menu map

MiniMed™ 780G Detailed Menu Map

Setting up your pump

Your trainer will help you set up your pump. They will help you populate your delivery settings and reminders, pair your devices, and explain all the menu items.

To start, simply press the centre Select button to open the main menu, and then navigate to the different icons shown below.

















1 Insulin Bolus/Stop Bolus* <ul style="list-style-type: none"> Bolus Wizard Manual Bolus Preset Bolus* Delivery Settings ➔ Basal/Cancel Temp Basal* <ul style="list-style-type: none"> Temp Basal Preset Temp* Basal Patterns Basal Pattern Setup ➔ Suspend All Delivery/Resume Basal* Delivery Settings ➔	2 History & Graph History <ul style="list-style-type: none"> Summary Daily History Alarm History Paired Sensors Sensor Glucose Review <ul style="list-style-type: none"> High Limit Low Limit Days to Average Graph Time in Range	3 SmartGuard SmartGuard Checklist Temp Target/Cancel Temp Target* SmartGuard Settings <ul style="list-style-type: none"> Target Auto Correction SmartGuard (On and Off)
6 Settings Alert Settings <ul style="list-style-type: none"> High Alert Low Alert Snooze High & Low Reminders Delivery Settings <ul style="list-style-type: none"> Bolus Wizard Setup Basal Pattern Setup Max Basal/Bolus Dual/Square Wave Bolus Increment Bolus Speed Preset Bolus Setup Preset Temp Setup 	6 Settings continued Device Settings <ul style="list-style-type: none"> Sensor (On and Off) Time & Date Device Info Display Block Mode Self Test Review Settings Manage Settings Easy Bolus Auto Suspend Language 	4 Sound & Vibration Silence Sensor Alerts Volume Sound Vibration Alert Settings ➔
		5 Blood Glucose BG
		7 Status Stop Bolus Suspend All Delivery/Resume Basal* SmartGuard Checklist Pump Sensor
		8 Paired Devices Pair New Device Pair CareLink Mobile Meter CGM
		9 Reservoir & Set New Reservoir & Set New Reservoir Only New Set Only Fill Cannula

* indicates an item that is shown when applicable. For example, Stop Bolus is shown when a bolus is being delivered. Preset Bolus is shown when the Preset Bolus feature is set up. Resume Basal is shown when insulin delivery is suspended. The ➔ icon indicates a shortcut to the screen.




Main menu on the pump and a simplified menu map



 HISTORY & GRAPH History Sensor Glucose Review Graph Time in Range	 SMARTGUARD SmartGuard Checklist Temp Target SmartGuard Settings SmartGuard On and Off	 SOUND & VIBRATION Silence Sensor Alerts Volume Sound Vibration Alert Settings shortcut
 RESERVOIR & SET New Reservoir & Set New Reservoir Only New Set Only Fill Cannula	 INSULIN Bolus Basal Suspend All Delivery Delivery Settings shortcut	 BLOOD GLUCOSE BG
 STATUS Suspend All Delivery SmartGuard Checklist Pump Sensor	 PAIRED DEVICES Pair New Device Pair CareLink	 SETTINGS Alert Settings Delivery Settings Device Settings

Menu	Reasons to use
 Paired Devices	<p>Pairing your Accu-chek Guide Link blood glucose meter is optional now that the Guardian 4 sensor requires no calibrations. If sensor glucose (SG) values do not match symptoms or expectations, use a blood glucose meter to make diabetes treatment decisions. Refer to System User Guide. It is best to keep the meter unpaired which means that you can choose if a particular BG should be entered in the pump.</p> <p>If using a compatible smartphone, pair your phone to your pump via the MiniMed™ Mobile app and using your CareLink™ login which you created in pretraining. See the QR code at the back of this book for instructions on how to pair and set up the meter.</p>
 Settings	<p>Your trainer will help you put your delivery, device, and alert settings into your pump here. If you need to change basal, bolus or other settings, this is where you will find them.</p>
 Blood Glucose	<p>You can manually enter a BG here but can also enter a BG direct into the Bolus Wizard. BGs entered may also calibrate the sensor.</p>
 Insulin	<p>You may use this frequently especially if you are not using the menu shortcut for bolusing. If in Manual Mode, you will be able to find the Temp Basal Rate here.</p>
 Reservoir & Set	<p>You will use this menu each time you need to change your infusion set.</p>

Additional menu items

 Sound & Vibration	<p>Turn sound and vibration settings on or off. Adjust volume from level 1 to 5.</p>
 History	<p>Review diabetes data history by timeframe.</p>
 Status	<p>In the Status menu you will be able to Suspend All Delivery – if not using the shortcut. Also you will be able to check your pump and sensor status here – if not using the shortcut.</p>

Your pump shortcuts



Press the **DOWN** arrow for shortcuts to the Bolus Wizard™ Screen



Press the **RIGHT** arrow for shortcuts to the Time in Target Range



Press the **UP** arrow for shortcuts to the Status Screen

Let's practice!

Practice 1 - Bolus with BG and carbs

- Step 1:** Press down button to open the Bolus Wizard screen
- Step 2:** Enter BG value and then enter a carbohydrate amount
- Step 3:** Press the down arrow button to select "Deliver Bolus"



Practice 2 - Correction bolus with no carbs

- Step 1:** Press Down arrow button to open the Bolus Wizard screen
- Step 2:** Enter an elevated glucose value (above)
- Step 3:** Do not enter carbohydrates but press the down arrow button to select deliver bolus



Congratulations!

You have successfully set up your MiniMed™ 780G insulin pump.

It is now time to learn and insert your infusion set and get pumping. Your trainer will help you with this. There are also pictorial step by step instructions in your Quick Reference Guides. Scan the QR code at the back of this guide to take you to the instructions.

Your training day!

Starting CGM with your MiniMed™ 780G

Continuous Glucose Monitoring gives you a more complete picture of your glucose control and allows you to receive 288 sensor glucose readings every 24 hours. CGM alerts notify you of high and low glucose values and can be accompanied by arrows which show the speed and direction your glucose levels are moving.

The system uses the Guardian™ 4 sensor which does not require calibrations.#

By combining CGM with your MiniMed™ 780G, you can now use SmartGuard™ technology.

In this section, you will learn about using SmartGuard™ Suspend before low and Suspend on low features in Manual Mode. We will then cover SmartGuard™ feature, or Advanced Hybrid Closed Loop System a little later.

Your CGM System components

- 1 The Guardian™ 4 Transmitter connects to the glucose sensor and sends glucose readings to your pump.*
- 2 The Guardian™ 4 Sensor measures glucose levels in the body.*
- 3 The MiniMed™ 780G insulin pump displays glucose readings.



*The Guardian™ 4 Transmitter and the Guardian™ 4 Sensor are connected in the image above.

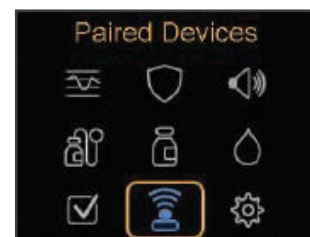
If your sensor glucose (SG) values do not match symptoms or expectations, use a blood glucose meter to make diabetes treatment decisions. Refer to System User Guide.

Setting up your CGM

Step 1

Go to your menu and select Pair Devices.

Remove the Transmitter from its charger and select Search.
Confirm the serial numbers and pair.



Step 2

As you will most likely be using SmartGuard™ technology, this is only a brief overview of the Suspend features. If you do not intend to use SmartGuard™ technology, please discuss this with your trainer.

• SmartGuard™ Suspend before low

When Suspend before low is on, your pump will temporarily stop delivering insulin if the SG value is approaching your low limit. This will keep you from getting additional insulin that would continue to lower your SG level.

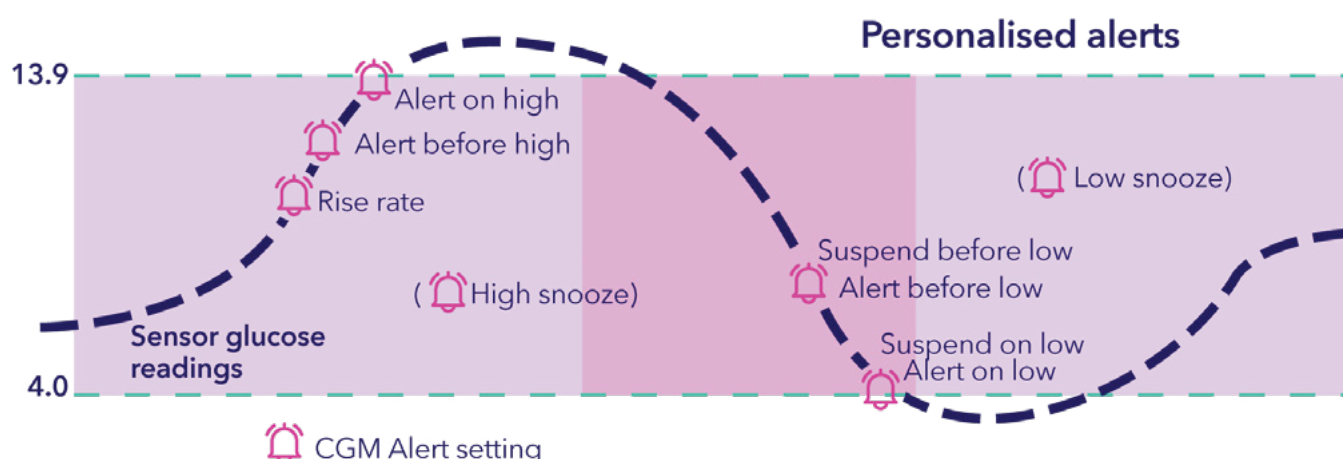
• SmartGuard™ Suspend on low

This is an alternative option to the one above. When Suspend on low is set to on, your pump temporarily stops insulin delivery if your SG has reached or fallen below your low limit. This keeps additional insulin from being delivered.

Note

Your alerts apply to both Manual Mode and SmartGuard™ feature

If you are in SmartGuard™ feature and are transitioned back to Manual Mode, the SmartGuard™ suspend settings will activate automatically provided they were turned on before you started SmartGuard™ feature.



Let's insert, tape, and start your sensor

Your trainer will help you learn how to insert and tape your sensors. In addition, please refer to the QRG QR code at the back of this guide, for reminders of how best to do this for success.

Step 3

- Go to Settings - Device Settings - Turn on Sensor
- With the transmitter connected to the sensor, your MiniMed™ 780G will ask you to start a new sensor and then enter a warm-up period
- Warm-up takes 2 hours. At the end of this period, you will start to see sensor glucose (SG) readings on the screen of your pump. You will see a countdown banner starting at 2-hours, to let you know when your sensor is due to finish the warm-up period.

Note

While you are in Manual Mode, you will need to enter a BG reading into the pump in order to make treatment decisions such as before meals and correcting a high glucose level. This BG reading can be entered directly into the Bolus Wizard menu. If you do check your levels with a meter and enter that into your pump, that reading will calibrate the sensor. If you manually enter a glucose value that is exactly the same as your current SG, the system will ask if you would like to calibrate the sensor.

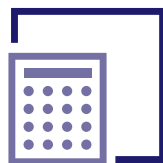
Your home screen in Manual Mode with Suspend before low



Steps for success when using Manual Mode



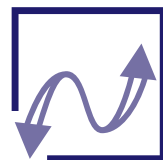
Bolus for meals 10 to 20 minutes before the START of a meal.



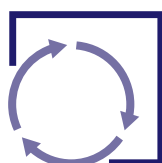
Count your carbohydrates before meals as correctly as possible.



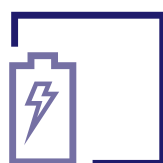
Do a correction bolus through the bolus wizard calculator if you receive a high glucose alert, or a BG recommended alert.



Observe real-time glucose trends.



Change your infusion sets and reservoirs as indicated. Up to 7 days for your sensor* and Extended Infusion Sets.



Remember to charge your transmitter between every sensor change.



The Guardian™ 4 sensor does not need calibrating, and there may be times you may need to check your glucose levels.†



Upload your data to CareLink™ Personal each week or if using the app this will be automatic.

Congratulations!

You have successfully set up CGM on your MiniMed™ 780G insulin pump in Manual Mode.

Your trainer will discuss with you when to start using SmartGuard™ feature. In preparation for this next step, you may want to review some more information about SmartGuard™ feature – there is a QR code to access more information at the back of this guide.

Notes

*Guardian™ 4 Sensor life is up to 7 days.

†If sensor glucose (SG) values do not match symptoms or expectations, use a blood glucose meter to make diabetes treatment decisions. Refer to System User Guide.

Your training day!

Starting SmartGuard™ feature with your MiniMed™ 780G

Today, by turning on SmartGuard™ feature, your MiniMed™ 780G will become an Advanced Hybrid Closed System. Your pump will automate the delivery of both basal and correction insulin boluses every 5 minutes based on sensor glucose values, adapting to your individual unique insulin needs.

Note

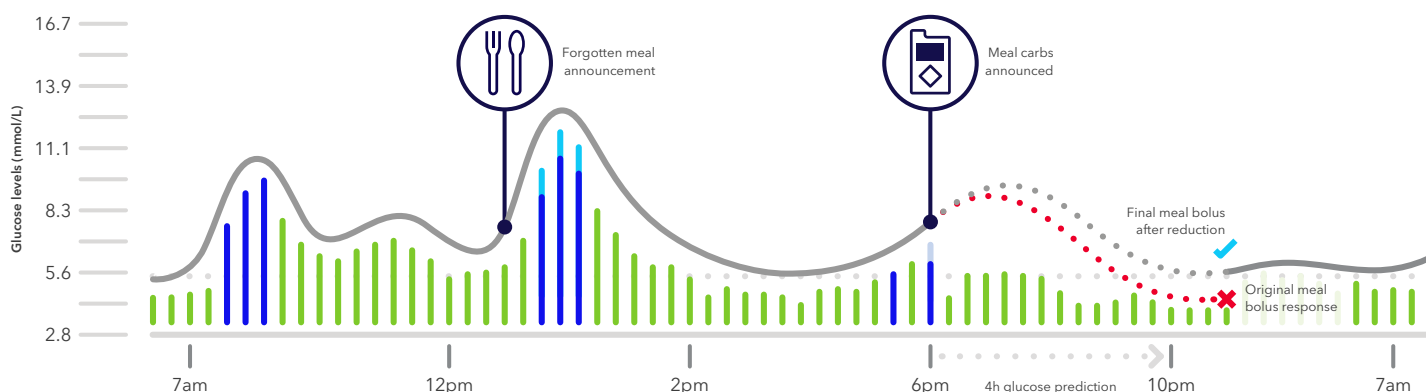
- Your health care team and you will decide on your target, either 5.5 mmol/L, 6.1 mmol/L or 6.7 mmol/L.
- Auto corrections can be delivered every 5 minutes.
- The sensor does not need calibrating but every BG reading which is entered in the pump will calibrate the sensor.
- Sensor Glucose auto populates Bolus Wizard when in SmartGuard™ feature.

Getting to know the SmartGuard™ feature

Adjusts and auto corrects every 5 minutes

SmartGuard™ technology automatically delivers basal insulin and auto correction doses every five minutes, based on sensor glucose readings.*

Up to 288
Automatic adjustments
and/or corrections
per day*



Auto corrections automatically correct highs every 5 minutes, as needed

For illustrative purposes only.

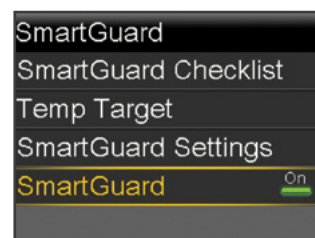
*Refer to SmartGuard™ features. Individual results may vary.

The MiniMed™ 780G system (or MiniMed™ AHCL0 algorithm) includes technology developed by DreaMed Diabetes (Petah Tikvah, Israel)

Turn on SmartGuard™ feature

Step 1

- Go to the SmartGuard™ menu, scroll down and switch to on.
- Discuss with your health care team which SmartGuard™ target is best suited to you, select this in SmartGuard settings and save.

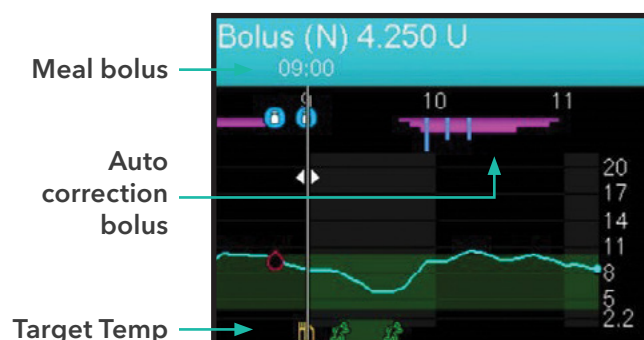
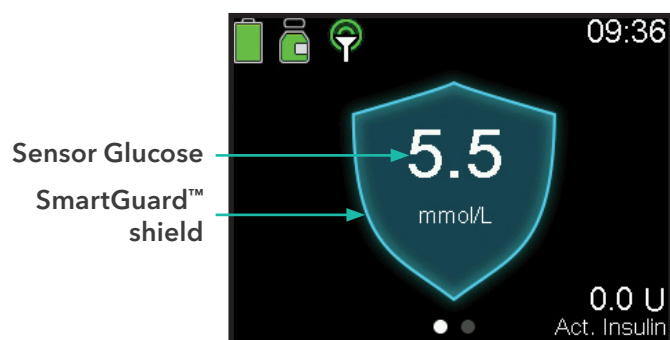


Note

Your alerts apply to both Manual Mode and SmartGuard™ feature

If you are in SmartGuard™ feature and are transitioned back to Manual Mode, the SmartGuard suspend settings will activate automatically provided they were turned on before you started SmartGuard™ feature.

Your home screen in SmartGuard™ feature



Note

Press your diamond key to see your CGM trace full screen.

Use your <, >, and ^ buttons on your pump to toggle between 3-, 6-, 12- and 24-hour views of your trace.

Bolusing with SmartGuard™ feature

When bolusing for meals in SmartGuard™ feature, you need to enter the carbs you are about to eat and select Deliver Bolus. The sensor glucose reading will already be visible in the bolus screen. You cannot change the recommended bolus amount. The SmartGuard™ bolus algorithm may change the expected size of the bolus. This is because it looks back 2 hours to assess your insulin delivery history, and it looks forward up to 4 hours to check if any bolus is predicted to cause you to drop too low in the future.

If you forget to enter carbs for a meal, there are up to 12 auto corrections available every hour which, if needed, will be delivered using the same SmartGuard™ bolus algorithm to help get your levels back to target as soon as possible. Your trainer will explain how these auto corrections work.

Staying in SmartGuard™ feature

You may receive a request to enter a BG reading as can be seen here. Your trainer will explain the reasons you may receive this notification. When this occurs, you will see a blue banner at the bottom of the pump screen with instructions. You will also see a red blood droplet (seen in the image to the right).

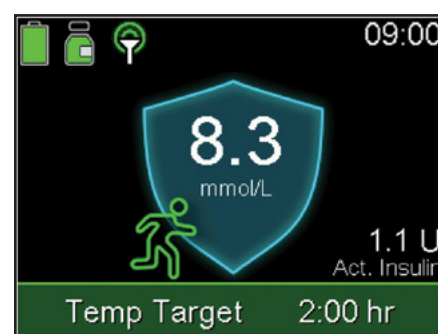
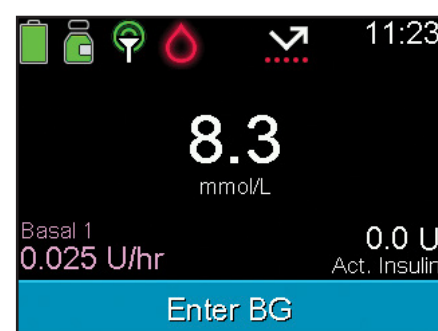
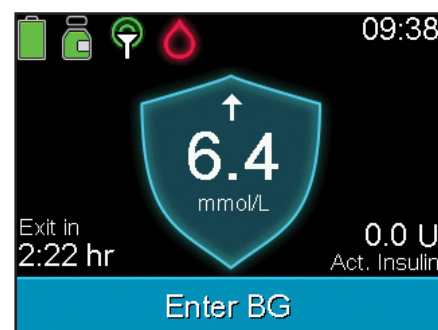
To stay in SmartGuard™ feature, you will need to respond to this BG request within 4 hours (you can see the countdown timer in the left bottom corner of the pump screen).

If the situation has not resolved, the system will transition to Manual Mode.

In the lower image at the right, this shows that the system has exited to Manual Mode (the basal rate is in the lower left corner) and the blue shield is not showing. Please note that SmartGuard™ Suspend before low or Suspend on low, if initiated in Manual Mode, will remain active.

Setting a Temp Target

Anytime you're concerned about lows (e.g., exercise) you can set a temporary target of 8.3 mmol/L. Consider setting temp target 1–2 hours before exercise or any other activities that may cause lows. When temp target is active, the auto correction boluses are not delivered.



Steps for success when using SmartGuard™ feature



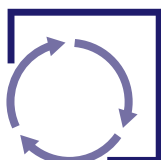
Bolus 10 to 20 minutes before meals, if possible. If you forget, and it's been more than 30 minutes, it's best to correct any highs yourself.



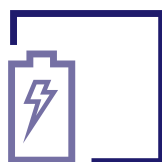
Respond promptly to any alerts and alarms. If you are experiencing an unexpected high glucose level, check your BG and use this BG to do a bolus correction through the Bolus Wizard™ calculator.



Follow self-care guidelines for insulin pump therapy. Your team will advise you.



Change your infusion sets and reservoirs as indicated. Up to 7 days for your sensor[#] and Extended Infusion Sets.



Remember to charge your transmitter between every sensor. Don't forget to change your pump battery if it is showing red before bed.



Upload your data to CareLink™ Personal each week or if using the app this will be automatic.



The Guardian™ 4 sensor does not need calibrating, and there may be times you may need to check your glucose levels to remain in SmartGuard™.* Your trainer will discuss this with you during your training.

Notes

*If sensor glucose (SG) values do not match symptoms or expectations, use a blood glucose meter to make diabetes treatment decisions. Refer to System User Guide.

[#]Guardian™ 4 Sensor life is up to 7 days.

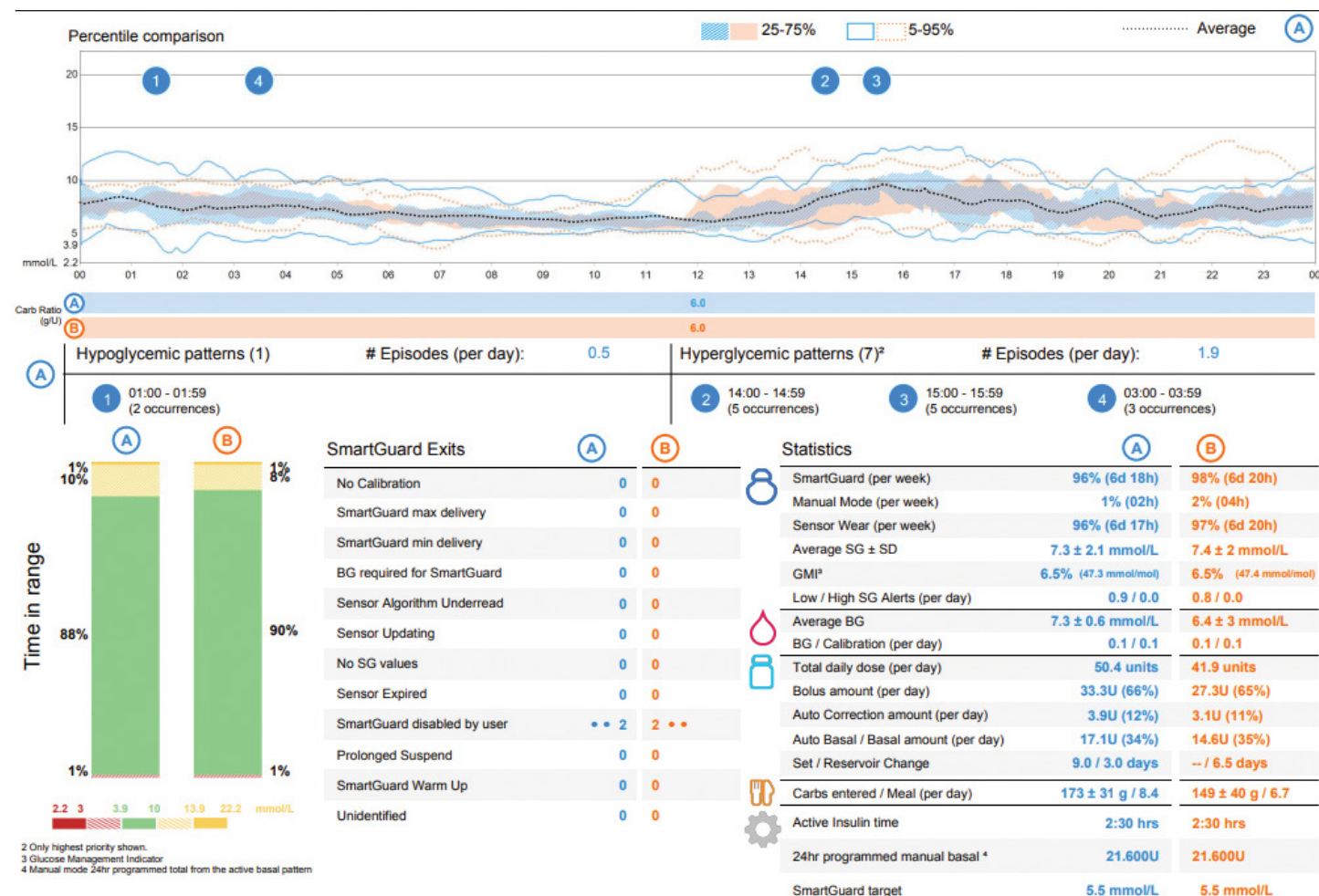
Your training day!

CareLink™ Personal and your MiniMed™ Mobile app

CareLink™ Personal software is a Medtronic web based diabetes data management platform for you or your carer to use at home. CareLink™ connects you to your data and you to your healthcare team.

Your pump is automatically uploaded to CareLink™ every day via your MiniMed™ Mobile app. If you are not using the app, your data can be uploaded manually using the blue USB. Your StartRight™ coach, your trainer or the QRG in this booklet will help you install the MiniMed™ Mobile app on your compatible smartphone.

CareLink™ Personal software



CareLink™ Personal software converts data from your pump into easy to understand insights.

Apps

There are 2 apps so please make sure to install the correct one.



**MiniMed™
Mobile app**



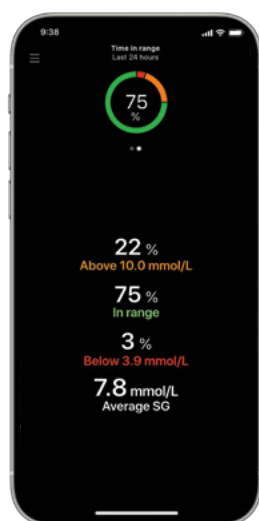
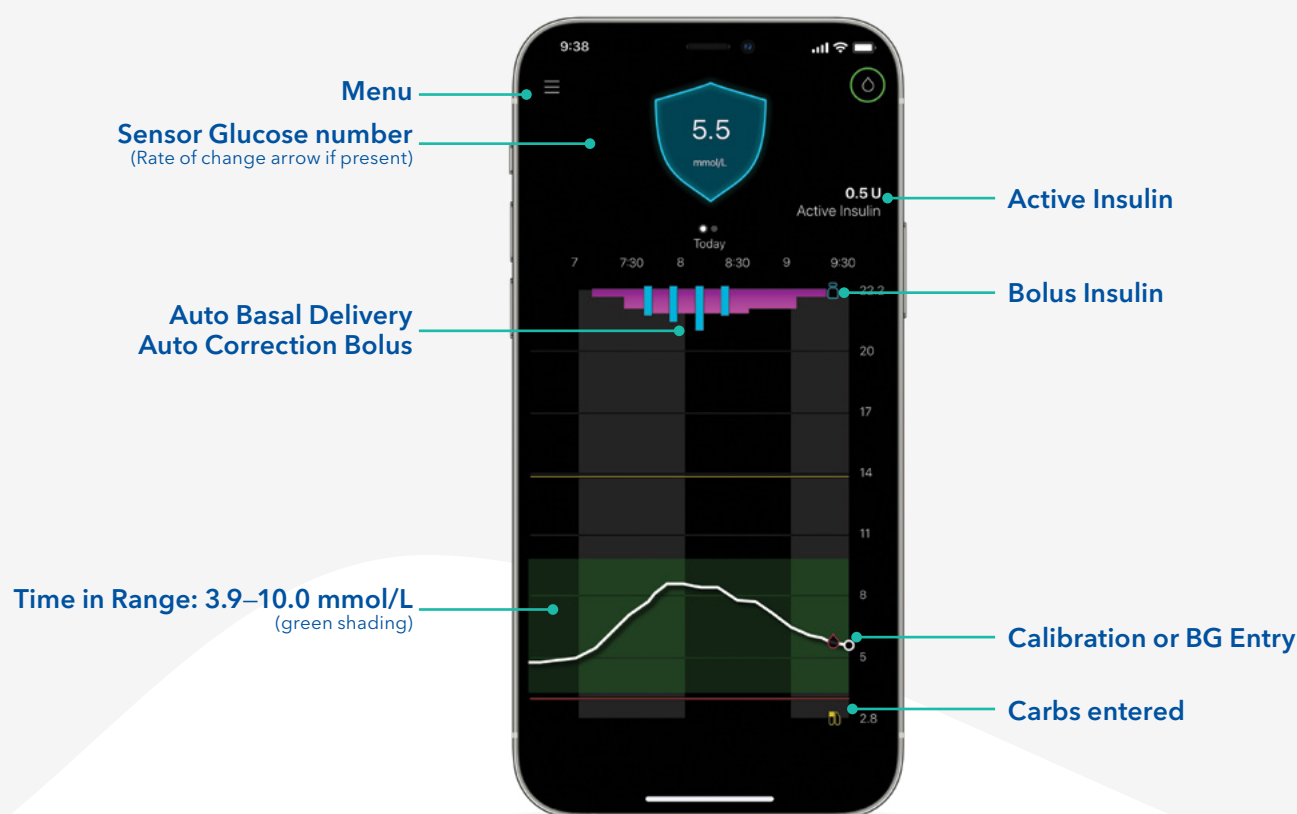
**CareLink™
Connect app**

- The pump is your primary display and the MiniMed™ Mobile app mirrors what the pump shows which is both insulin delivery and CGM data. This app is used by you, the pump user. You can connect your app to 5 care partners. There is a QR code later in this guide showing you how to set this up.
- CareLink™ Connect app receives data from the MiniMed™ Mobile app and is available for up to 5 care partners. Every Care Partner is able to follow up to 5 MiniMed™ Mobile users. There is a QR code later in this guide which will show you how.
- MiniMed™ Mobile app is also compatible with Apple® Watch.* You can see your values on your watch face or tap to enter the app. The QR code later in this guide will show you how to set this up.



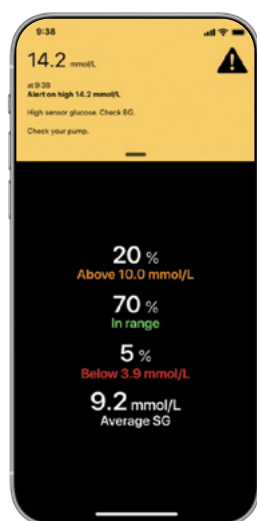
Knowing your way around your MiniMed™ Mobile app

Home Screen View



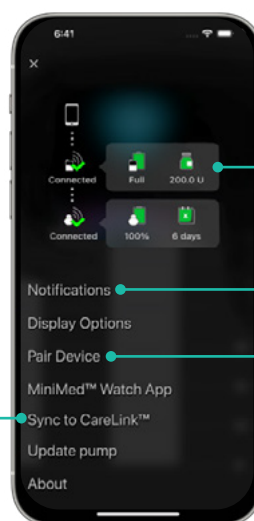
Swipe left

To see last 24 hours Time in Range (TIR) data and graphs if using CGM and pump.



Colour coded notification

RED = Alarm
ORANGE = Alert
GREY = Reminder
BLUE = Message



Sync to CareLink™

Use UPLOAD NOW to force upload current data for reports.
Use CHANGE CARELINK™ SIGN-IN to sign back into CareLink™.
Use MANAGE CARE PARTNERS to approve or remove care partners.

After your training day



We are here for you!

24-hour tech support - 1800 777 808

Available to assist you with any technical issues or questions that you may have regarding the operation of your MiniMed™ 780G system



Where to look if you have questions?

Important websites:

<https://medtronic-diabetes.com.au>



Don't forget

Keys to success

- Scan the QR code to the right and save it to your phone.
- This will take you to the Product Support page.
- This page also includes a link to get sensors replaced.
- Also, set realistic expectations for yourself.
- Use the shortcut options on the pump for easy navigation.



Tips and tricks

Plan ahead

- Always carry supplies with you to treat lows.
- Always pack extra pump supplies when travelling and keep in your carry-on.
- Check out the Medtronic loan program before travelling.
- Aim to not be away from your pump or disconnected for more than an hour without a back-up plan.

Practice good bolus habits

- Count and enter carbs before meals.
- Dose bolus insulin 10-20mins before meals.
- Enter accurate information into the pump - say what you are doing, exactly when you are doing it.

Follow CGM guidelines

- Insert and tape the sensor correctly.
- Respond when an action is required, e.g., BG required.

Quick Reference Guides QR Codes



Setting up
basal rates



Setting up the
Bolus Wizard™



Infusion set
management
guidelines



Taping Tips



MiniMed™ 780G
System at a glance



Guardian™ 4 sensor
insertion guide



Getting Started with
MiniMed™ Mobile and
Apple Watch®



Carelink™ Connect
Quick Set Up Guide



INDICATION:

The MiniMed™ 780G insulin pump is indicated for use by patients aged 7-80 years with Type 1 diabetes, whose total daily dose of insulin is 8 units per day or more. The Guardian™ sensor 4 is intended for insertion into persons ages 7 years and older.

IMPORTANT SAFETY INFORMATION:

Infusion sets are indicated for the subcutaneous infusion of medication, including insulin, from infusion pumps. See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events.

For further information, contact your local Medtronic representative and/or consult the Medtronic ANZ website at medtronic-diabetes.com.au

*vs the 3-days infusion set MiniMed™ Quick-set™

ALWAYS FOLLOW THE DIRECTIONS FOR USE.

Information contained here is not medical advice and should not be used as an alternative to speaking with your doctor. Discuss indications, contraindications, warnings, precautions, potential adverse events and any further information with your health care professional.

Medtronic

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