



THE MINIMED[™] 780G SYSTEM Guide for Schools





UC202118004 ENPDF1

UC202118004 ENPDF2

Purpose & Individual Healthcare Plans 4
MiniMed [™] 780G System5
Manual Mode & SmartGuard [™] Mode6
SmartGuard [™] Mode
Important information about SmartGuard TM Mode7
How to tell when the pump is in SmartGuard $^{ extsf{TM}}$ Mode7
A student's responsibilities in SmartGuard™ Mode8
Pump Basics9
Buttons9
Using the pump in SmartGuard [™] Mode/Manual Mode10
With a linked meter — checking BG,10
With an unlinked meter — checking BG,10
How to bolus in SmartGuard™ Mode11
How to bolus in Manual Mode12
Temp Target in SmartGuard™ Mode13
Temporary basal in Manual Mode14
Checking Last Bolus and recent actions15
Alerts & Alarms
Changing a Battery
Things to Remember
Important safety information

PURPOSE AND INDIVIDUAL HEALTHCARE PLANS

Purpose

This guide is intended to help schools with the basic operation of a student's MiniMed[™] 780G system. Please note that this booklet does not cover all aspects of insulin pump therapy and continuous glucose monitoring (CGM). It is written for people with some experience with this technology.

Individual Healthcare Plans



Every student on the MiniMed[™] 780G system should have an Individual Healthcare Plan (IHP) from the student's healthcare professional. This should include:

- Name of device with programmed settings. Note that the pump may be operating in one of two modes. See next page for more information.
- A back up plan if the pump is not able to be used to deliver insulin with:
 - rapid-acting insulin pens or syringes, and doses

for food and for correcting high blood glucose (BG)

 long-acting insulin pens or syringes, and dose if necessary, for prolonged stays at school

The responsibilities of the parents/guardians and the school should also be established.



The MiniMed[™] 780G system components



The MiniMedTM 780G system can be used in two different ways – Manual Mode and SmartGuardTM Mode.

Manual Mode is using the pump with or without a continuous glucose monitor (CGM) in a traditional way, as with the previous pump systems from Medtronic.

SmartGuard[™]**Mode** the system automatically adjusts basal insulin every 5 minutes based on sensor glucose (SG) readings. It also can automatically deliver a correction

bolus to help correct a high SG reading. A student using SmartGuard[™] Mode may still occasionally be required to do a Blood Glucose check.

Manual Mode

Using the pump in a traditional way,

- Basal rates are pre-programmed.
- Bolusing can be done with the Bolus Wizard[™] feature or with manual boluses.
- May be used with or without CGM.

Manual mode <u>No CGM</u>

<u>Manual Mode</u> with CGM





SmartGuard[™] Mode

Controlled by a SmartGuard[™] algorithm that self-adjusts basal insulin based on sensor glucose readings.

- Basal insulin is automatically adjusted every 5 minutes.
- May deliver a bolus automatically if the SmartGuardTM feature determines that a correction bolus is necessary
- Bolusing before meals using the Bolus Wizard[™] feature is necessary.
- CGM is required.

SmartGuard[™] Mode



Important information about SmartGuard[™] Mode:

- Basal insulin is delivered based on Sensor Glucose (SG)
- SmartGuard[™] mode uses a sensor glucose target of 5.5,6.1 or 6.7 mmol/L. This is decided by the clinical team
- A student can temporarily change the target to 8.3 mmol/L, like for example, exercise. This is referred to setting a Temporary Target
- Carbs must be entered into bolus option of the pump before meals
- BG checks are necessary at least every 12hrs to calibrate the sensor
- A student may receive an alert if the pump requires an action to be performed to enable the system to remain in SmartGuard[™] mode

How to tell when the Minimed[™] 780g has the Smartguard[™] feature activated

When the pump is using the SmartGuardTM feature, the Home screen displays a shield with the current SG level.



A STUDENT'S RESPONSIBILITIES WHEN IN SMARTGUARD[™] MODE

1. Bolus for carbs before eating

When in SmartGuard[™] Mode, a student must bolus for carbs before each meal and snack. Giving insulin before a meal can help students avoid post-meal high BGs, which could lead to fewer alerts and improved glucose control. Check the Individual Healthcare Plan for the ideal length of time to bolus pre-meal.

2. Respond to alarms and alerts

Students should respond promptly to all alarms and alerts to help avoid highs and lows, which could lead to more time spent in target range.

3. Check BG if required

Occasional fingerstick testing of glucose levels may be required

PUMP BUTTONS



Backlight

When you are not pressing buttons on the pump, you will notice that the Backlight will soon turn off. The pump is still on; it is just saving battery life. You can simply press any button to make the screen reappear.

Blood Glucose testing with the Accu-Chek Guide Link meter

The Accu- Chek Guide Link meter can be used for blood glucose testing and by pressing the Back button the results are quickly sent to the pump.

If is not pressed there will be a delay in the display of the BG result on the pump.



Blood Glucose testing with any other meter

If you are using a different blood glucose meter you can manually input the glucose reading into the pump by the following steps

Mectronic	Blood Glucose □ ◆ ◆ all all ← ▼ all all ← T all all all all all all all all all al	BG 12:54 Enter BGmmov/L Save

HOW TO BOLUS IN SMARTGUARD

- 1. Enter BG into pump if required. If no BG is required, the current sensor glucose value will be available within the bolus wizard screen
- 2. Press the ∨ arrow to access the Bolus Wizard[™] feature



- 3. Enter the carbs by using the \wedge arrow and confirm by pressing ${\sf O}$
- 4. Review the bolus amount and select Deliver Bolus
- 5. The Home screen appears showing the bolus being delivered

USING THE PUMP IN MANUAL MODE

To deliver correction and food bolus

- 1. Enter BG into pump. if not using linked meter follow earlier steps via the BG Icon
- 2. Press the ∨ arrow to access the Bolus Wizard[™] feature



- 3. Enter the carbs by using the ^ arrow and confirm by pressing select
- 4. Review the bolus amount and select Deliver Bolus
- 5. The Home screen appears showing the bolus being delivered

To deliver correction bolus only (no food)

Enter BG as steps above however leave Carbs at 0g

Bolus Wizard	09:00
👌 BG 8.3 mmol/L	1 . 0u
🗓 Carbs 🛛 🛛	0 . 0u
Adjustment	0.0 U
Bolus	1.0 U
Deliver Bolus	

To deliver food bolus only (no BG)

As steps above however leave BG ---mmol/L and just enter carbs

Bolus Wizard	09:00	
👌 BG mmol/L		
Carbs 10g	0 . 6u	
Adjustment	0 . 0u	
Bolus	0.6 U	
Next		

TEMPORARY TARGET IN SMARTGUARD[™] MODE

A student may want to temporarily change their selected glucose target eg. For physical activity. This is called temporary target. When in SmartGuard[™] the temporary target is fixed at 8.3mmol/L.

To set a temp target:

- From the Home screen, press the ^O button, and then select the Smartguard[™] Shield.
- 2. Select Temp Target to turn the feature on or off.
- 3. Set the duration, from 30 minutes to 24 hours, in 30-minute increments
- 4. Select Start.

The screen shows a Temp Target Started message, and then changes to the Home screen, where a banner shows the remaining temp target time.



To cancel a temp target:

- 1. From the Home screen, press ^O and then select the Smartguard[™] shield
- 2. Select Cancel Temp Target.

Temp Target		09:00
Temp Target Duration 2:00 hr 1:39 hr remaining	8.3	mmol/L
Cancel Temp	o Ta	arget

TEMPORARY BASAL IN MANUAL MODE

To start a temp basal rate:

- 1. From the Home screen, press O
- 2. Select Basal > Temp Basal.
- 3. Set the Duration, as per individual care plan instruction.
- 4. Select Next.
- 5. Select Type to select Rate or Percent.
- 6. Depending on the type selected, do one of the following:
 Enter a percentage, as per individual care plan instructions.
 - Enter a basal rate.
- 7. Select Review to review the temp basal setting.
- 8. Select Begin to start the temp basal rate.

The Temp Basal banner appears on the Home screen during delivery



Temp Basal	09:00
Current rate:	0.050 U/hr
Туре	Rate 🔵
	Percent 💳
Percent	100 %
Review	Begin



CHECKING LAST BOLUS AND RECENT ACTIONS

There may be times when you need to see the time or amount of the last bolus that was given. For example, you may want to check to make sure a student took a bolus at lunch. You may also want to review the last several boluses that were delivered. For example, a parent might want to know the boluses their child gave throughout the day. You can see the last several boluses delivered in Daily History.

- 1. Press the select button O
- 2. Choose the History and graph icon
- 3. Go into history
- 4. Select daily history
- 5. Select date you wish to review



Here are some common alarms and alerts you might see on a student's pump

Read and address the alert





In both of these examples, entering a BG manually or with the linked meter will address and clear the alert.



CHANGING THE BATTERY

The pump is powered by a AA battery. A brand-new lithium, alkaline, or fully charged rechargeable battery can be used.



Do not under-tighten or try to over-tighten the battery cap. It should be aligned horizontally with the pump case as shown here.



Things to remember

The MiniMedTM 780G system with SmartGuardTM technology can help keep your students' glucose levels in target range.

More time spent in target range may help your student live a healthier life and focus on learning!

Things to remember in SmartGuard Mode:

- A student must bolus before meals, and respond to alarms and alerts
- Highs and lows can still occur, so make sure to have a plan in place on how to address them.



For any urgent technical questions, please call the Medtronic 24-hour helpline

at 01932 205 167 in the UK,

or 01 5111444 in the ROI

For additional information & support,

go to www.medtronic-diabetes.co.uk in the UK, or

https://www.medtronic-diabetes.ie/in the ROI

UC202118004 ENPDF17

IMPORTANT SAFETY INFORMATION

WARNING: Medtronic performed an evaluation of the MiniMed[™] 780G system and determined that it may not be safe for use in children under the age of 7 because of the way that the system is designed and the daily insulin requirements. Therefore, this device should not be used in anyone under the age of 7 years old. This device should also not be used in patients who require less than a total daily insulin dose of 8 units per day, because the device requires a minimum of 8 units per day to operate safely

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